

7-1-1974

Graduate Catalog, 1974-1976

Eastern Kentucky University

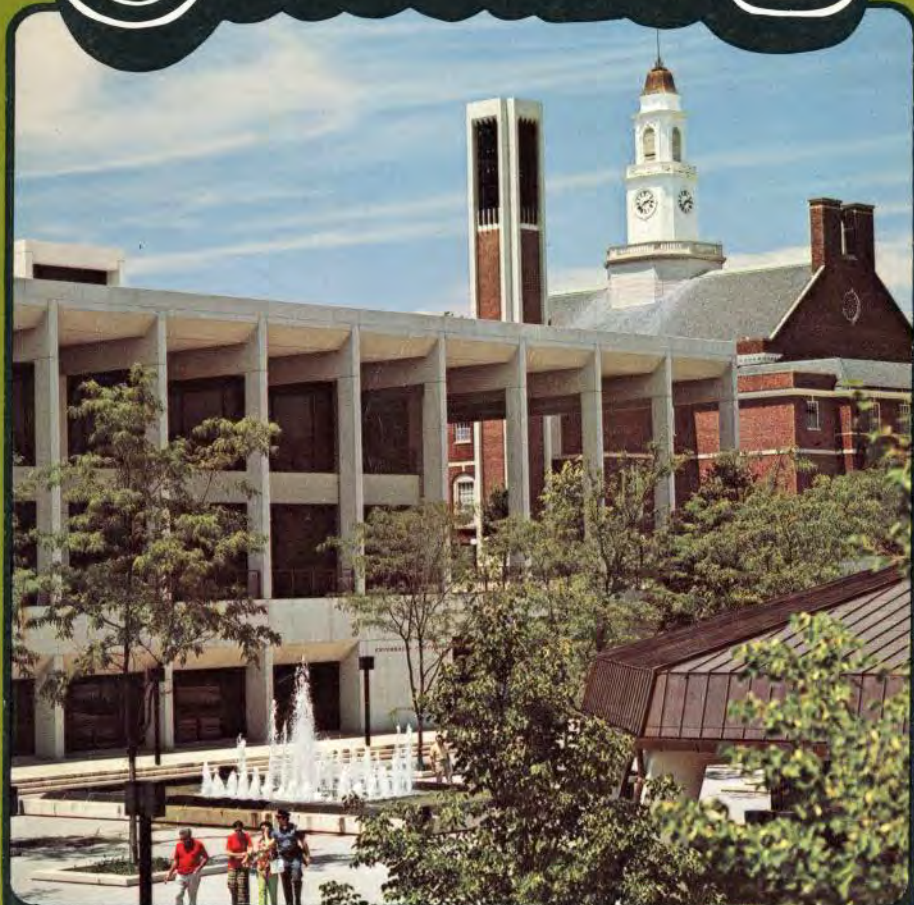
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Gráduate **Catalog**



74·76

EASTERN KENTUCKY UNIVERSITY

BULLETIN · VOLUME 65 · NUMBER 2



Member of
 American Association of Colleges for Teacher Education
 American Association of State Colleges and Universities
 National Association for Business Teacher Education
 Association for Field Service in Teacher Education
 American Association of Junior Colleges
 American Association of University Women
 American Council on Education
 American Technical Education Association
 Association of Schools of Allied Health Professions
 Council of Graduate Schools in the United States



Bulletin

Vol. 62

July 1974

No. 1

Published twice a year by the Eastern Kentucky University Office of Publications, 1000 University Avenue, Richmond, Kentucky 40475. Second-class postage paid at Richmond, Kentucky, and at additional mailing offices. Postmaster: send address changes in Richmond, Kentucky, to Vol. 62, No. 1, July 1974.

University

JULY 1974 • VOLUME 62 • NUMBER 1

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Council of Graduate Schools in the United States

Accredited by

American Chemical Society
American Medical Record Association
Southern Association of Colleges and Schools
National Council for Accreditation of Teacher Education
National Association of Schools of Music
National League for Nursing

Bulletin

Vol. 65

July 1974

No.1


PUBLISHED SEVEN TIMES A YEAR BY THE EASTERN KENTUCKY UNIVERSITY, in January, February, March, April, July, August, and November, and entered at the Post Office in Richmond, Kentucky 40475 as second-class matter.

Graduate Catalog 1974-76



Eastern Kentucky University

BULLETIN • VOLUME 65 • NUMBER 2



All statements in this publication are announcements of present policy only and are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

The Board of Regents of Eastern Kentucky University does hereby reaffirm that neither race, nor creed, nor color, nor sex shall be a criterion for admission to any part of any program or activity conducted by Eastern Kentucky University.

Eastern Kentucky University is an equal educational opportunity institution.

*This bulletin was prepared by Eastern Kentucky University,
and paid from state funds.*

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1974-University Calendar-1975

FIRST SEMESTER

August 24 — Saturday

9:00 a.m. Assembly of faculty, administrative staff and other employees.

10:30 a.m. College and departmental meetings.

August 25 — Sunday

10:00 a.m. Dormitories open.

3:30 p.m. President's greeting to parents, Hiram Brock Auditorium.

August 26 — Monday

8:00 a.m. Orientation for new students not participating in summer orientation-registration program, and transfer students, Alumni Coliseum.

1:00 p.m. Registration of students in upper division colleges and graduate students.

August 27 — Tuesday

8:00 a.m. Registration of students in upper division colleges and graduate students.

10:30-12 noon Previously enrolled Central University College students whose schedules were not approved in the spring should see advisors in their offices.

1:00 p.m. Registration of Central University College students.

August 28 — Wednesday

8:00 a.m. Registration of Central University College students.

August 29 — Thursday

Classes begin

5:30-6:30 p.m. Registration of evening students enrolling in Thursday night class.

August 29-September 9

Late registration and schedule changes.

August 31 — Saturday

8:00-10:00 a.m. Registration of evening and Saturday students.

10:30-11:30 a.m. All Saturday classes meet.

September 2 — Monday

Labor Day — No Classes.

September 9 — Monday

Last day to enter a class.

Last day to change from audit to credit.

September 18 — Wednesday

Last day to:

— drop a class without a grade.

— change to or from "pass-fail"

— change from credit to audit.

September 27 — Friday

Last day to apply for student teaching in the Spring Semester, 1975.

September 28 — Saturday

Undergraduate Record Examination for first semester graduates.

October 14 — Monday

Columbus Day — No Classes.

October 25 — Friday

Mid-semester reports to Registrar.

October 26 — Saturday

Graduate Record Examination for graduate students.

May and August, 1975, graduates must apply for graduation by this date in their college dean's office.

12:45 p.m. Classes close for Thanksgiving holiday.

Classes resume.
Last day to drop a course.

Pre-registration for spring semester

Final examinations.

SECOND SEMESTER

Pre-registration for spring semester.

12:00 noon Dormitories open for all students.

Registration of students in upper division colleges and graduate students.

Central University College advisors will be available in their offices. Advisors will be assigned to students not enrolled fall semester, 1974, in Room 112, Combs Building.

Registration of students in Central University College.

Registration of students in Central University College.

Classes begin

5:30-6:30 p.m. Registration of evening students enrolling in a Thursday night class.

Late registration and schedule changes.

8:00-10:00 a.m. Registration of evening and Saturday students.

10:30-11:30 a.m. All Saturday classes meet.

Last day to enter a class.

Last day to change from audit to credit.

Graduate Record Examination for graduate students.

Last day to apply for student teaching in fall semester, 1975.

Undergraduate Record Examination for May graduates in
Ferrell Room, Combs Building.

Washington's Birthday — No Classes.

Mid-semester reports to Registrar.

Spring vacation.

8:00 a.m. Class work resumes.

Good Friday — No Classes.

- April 10 — Thursday
Last day to drop a class.
- April 18 — Friday
Thesis deadline for May 75 graduates.
- April 21-23
Pre-registration for Fall Semester
- April 25 — Friday
December 1975 graduates must apply for graduation by this date in their college dean's office.
- April 26 — Saturday
Graduate Record Examination for graduate students.
- April 30 — Wednesday
Oral/Comprehensive Reports for May 75 graduates due in Graduate School.
- May 5-10
Final Examinations.
- May 11 — Sunday
Baccalaureate service and commencement exercises.
- May 26 — Monday
Memorial Day — No Classes.
- May 12-June 6
Spring Intersession.

SUMMER SCHOOL

- June 16 — Monday
Summer school registration.
- June 17 — Tuesday
8:00 a.m. Classes begin.
- June 19 — Thursday
Last day to:
— register for a full load.
— enter a course.
— change from audit to credit.
- June 21 — Saturday
Graduate Record Examination for graduate students.
- June 25 — Wednesday
Last day to:
— drop a course without a grade.
— change from credit to audit.
— change to or from "pass-fail".
- July 4 — Friday
Independence Day — No Classes.
- July 24 — Thursday
Thesis deadline for Aug. 75 graduates.
- July 25 — Friday
Last day to drop a course.
- July 30 — Wednesday
Oral/Comprehensive reports for Aug. 75 graduates due in Graduate School.
- August 7 — Thursday
Commencement.
- August 8 — Friday
Close of summer school.
- August 11-23
August Intersession

1975 — University Calendar — 1976

FIRST SEMESTER

August 23 — Saturday

9:00 a.m. Assembly of faculty, administrative staff and other employees.

10:30 a.m. College and departmental meetings.

August 24 — Sunday

10:00 a.m. Dormitories open.

3:30 p.m. President's greeting to parents, Hiram Brock Auditorium.

August 25 — Monday

8:00 a.m. Orientation for new students not participating in summer orientation-registration program, and transfer students, Alumni Coliseum.

1:00 p.m. Registration of students in upper division colleges and graduate students.

August 26 — Tuesday

8:00 a.m. Registration of students in upper division colleges and graduate students.

10:30-12 noon Previously enrolled Central University College students whose schedules were not approved in the spring should see advisors in their offices.

1:00 p.m. Registration of Central University College students.

August 27 — Wednesday

8:00 a.m. Registration of Central University College students.

August 28 — Thursday

Classes begin.

5:30-6:30 p.m. Registration of evening students enrolling in a Thursday night class.

August 28-September 8

Late registration and schedule changes.

August 30 — Saturday

8:00-10:00 a.m. Registration of evening and Saturday students.

10:30-11:30 a.m. All Saturday classes meet.

September 1 — Monday

Labor Day — No Classes.

September 8 — Monday

Last day to enter a class.

Last day to change from audit to credit.

September 17 — Wednesday

Last day to:

— drop a class without a grade.

— change to or from "pass-fail".

— change from credit to audit.

September 19 — Friday

Last day to apply for student teaching in the Spring Semester, 1976.

October 4 — Saturday

Undergraduate Record Examination for first semester graduates.

October 13 — Monday

Columbus Day — No Classes.

October 24 — Friday

Mid-semester reports to Registrar.

October 25 — Saturday

Graduate Record Examination for graduate students.

October 31 — Friday

May and August, 1976 graduates must apply for graduation by this date in their college dean's office.

November 26 — Wednesday

12:45 p.m. Classes close for Thanksgiving holiday.

December 1 — Monday

Classes resume.

Last day to drop a course.

December 8-10

Pre-registration for Spring Semester.

December 15-20

Final examinations.

SECOND SEMESTER

December 8-10

Pre-registration for second semester.

January 4 — Sunday

12:00 noon Dormitories open for all students.

January 5 — Monday

Registration of students in upper division colleges and graduate students.

Central University College advisors will be available in their offices. Advisors will be assigned to students not enrolled fall semester, 1975, in Room 112, Combs Building.

January 6 — Tuesday

Registration of students in Central University College.

January 7 — Wednesday

Registration of students in Central University College.

January 8 — Thursday

Classes begin.

5:30-6:30 p.m. Registration of evening students enrolling in a Thursday night class.

January 8-17

Late registration and schedule changes.

January 10 — Saturday

8:00-10:00 a.m. Registration of evening and Saturday students.

10:30-11:30 a.m. All Saturday classes meet.

January 17 — Saturday

Last day to enter a class.

Last day to change from audit to credit.

Graduate Record Examination for graduate students.

February 6 — Friday

Last day to apply for student teaching in fall semester, 1976.

February 7 — Saturday

Undergraduate Record Examination for May graduates in Ferrell Room, Combs Building.

February 16 — Monday

Washington's Birthday — No Classes.

March 5 — Friday

Mid-semester reports to Registrar.

March 7-13

Spring vacation.

March 15 — Monday

8:00 a.m. Class work resumes.

- April 8 — Thursday
Last day to drop a class.
- April 15 — Thursday
Thesis deadline for May 76 graduates.
- April 16 — Friday
Good Friday — No Classes.
- April 19-21
Pre-registration for Fall Semester.
- April 23 — Friday
December 1976 graduates must apply for graduation by this date in their college dean's office.
- April 24 — Saturday
Graduate Record Examination for graduate students.
- April 28 — Wednesday
Oral/Comprehensive reports for May 76 graduates due in Graduate School.
- May 3-8
Final examinations.
- May 9 — Sunday
Baccalaureate services and commencement exercises.
- May 31 — Monday
Memorial Day — No Classes.
- May 10-June 4
Spring Intersession.

SUMMER SCHOOL

- June 14 — Monday
Summer school registration.
- June 15 — Tuesday
8:00 a.m. Classes begin.
- June 17 — Thursday
Last day to:
—register for a full load.
—enter a course.
—change from audit to credit.
- June 19 — Saturday
Graduate Record Examination for graduate students.
- June 23 — Wednesday
Last day to:
—drop a course without a grade.
—change from credit to audit.
—change to or from "pass-fail".
- July 5 — Monday
No Classes.
- July 16 — Friday
Last day to drop a course.
- July 22 — Thursday
Thesis deadline for Aug. 76 graduates.
- July 28 — Wednesday
Oral/Comprehensive reports for Aug. 76 graduates due in Graduate School.
- August 5 — Thursday
Commencement.
- August 6 — Friday
Close of summer school.
- August 9-21
August Intersession.

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1974-76

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The University

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EASTERN KENTUCKY UNIVERSITY . . .

Dedicated to Serving Kentucky Since 1906

Introduction

Eastern Kentucky University is a coeducational public institution of higher education offering general and liberal arts programs, pre-professional and professional training in education and various other fields at both the undergraduate and graduate levels. Located in Richmond, Madison County, Kentucky, Eastern has a distinguished record of more than six decades of educational service to the Commonwealth. The institution is recognized as one of the nation's leading producers of teachers with about half of its 30,000 graduates having entered the teaching profession.

Richmond is on the main line of the L & N Railroad, 112 miles south of Cincinnati, Ohio. Situated twenty-six miles southeast of Lexington, Kentucky, Richmond is conveniently reached by automobile over North-South Interstate 75 and over U. S. Route 25 (Dixie Highway) from Southeastern Kentucky. Richmond is also served by U. S. Route 227 and Kentucky Route 52. Combinations of major highways in the state with these highways make Richmond easily accessible from Eastern and Northeastern Kentucky as well as the Bluegrass and Central Kentucky area and the Metropolitan area of Louisville.

Completion of Interstate Highways, I-64 (East-West) and I-75 (North-South), and the Eastern Kentucky Turnpike, provide even greater convenience in automobile travel to Richmond, since the city is located near the convergence of these three arterial highways.

Richmond, the county seat of Madison County, is an expanding community of approximately 17,000 population. Served by fine churches representing most Christian faiths, the community provides an excellent environment for the University student.

In and around Richmond are many areas of historic and scenic interest. Boonesborough State Park, birthplace of Kentucky, is located twelve miles to the north. Many other historical places are within easy driving distance. Scenic and recreational areas surround this section of the state.

History

The General Assembly of 1906 enacted legislation establishing the Eastern Kentucky State Normal School. Governor J. C. Beckham signed the bill into law on March 21, 1906, and on May 7 of that year, the Normal School Commission, meeting in Louisville, selected the campus of the old Central University founded in 1874, in Richmond, Kentucky, as the site of the new school. On June 2, 1906, Ruric Nevel Roark was chosen President of the Normal School and the training of teachers was initiated.

In 1922, Eastern became a four-year institution known as the Eastern Kentucky State Normal School and Teachers College. The first degrees were awarded by this institution in 1925. In 1928, the College was accredited by the Southern Association of Colleges and Secondary Schools. In 1930, the General Assembly renamed the school as the Eastern Kentucky State Teachers College.

In 1935, a graduate program was approved at Eastern, leading to the Master of Arts in Education. In 1948, the General Assembly removed the word "Teachers" from the name of the College and granted the College the right to award non-professional degrees.

The most significant day since its founding came for Eastern February 26, 1966, when Governor Edward T. Breathitt signed into law a bill renaming the institution Eastern Kentucky University and sanctioning the awarding of graduate degrees in academic fields other than education.

During this period of time, Eastern Kentucky University has increased rapidly in size and stature. Beginning with a few students engaged in short review and certificate courses, the University today serves thousands of Kentucky's young men and women by offering a curriculum leading to the Associate of Arts, baccalaureate degrees and an expanding graduate program that presently offers degrees at the Master's level in many other fields as well as the already well-established Master of Arts degree in Education and the various fifth- and sixth-year leadership programs in education. Specialist degree programs have been implemented in Education and Technology. In addition to these programs, Eastern offers joint doctoral programs with cooperating institutions.

Ever-mindful of the purpose of its founding, Eastern continues to recognize its historic function of preparing quality teachers for the elementary and secondary schools of the Commonwealth. However,

a strong liberal arts curriculum leading to appropriate degrees, together with pre-professional courses in several areas and graduate programs, enable Eastern to uniquely serve the Commonwealth as a regional university.

Purpose

Within its statutory responsibilities, Eastern Kentucky University seeks to provide intellectual and cultural opportunities which will develop habits of scholarship and intellectual curiosity; which will provide a deep understanding of American democracy and the citizen's role in maintaining its strength and vitality; which will impart an understanding of man and his aspirations; which will enable effective and efficient communication; and which will prepare productive and responsive citizens. The University will remain responsive and flexible in order to serve in unique and needed ways.

Within these general responsibilities and purposes, the University has three specific functions — teaching, public service, and research — and places emphasis on the three in this order. Through its colleges and schools, the University seeks to offer quality instruction at a variety of degree levels in general education, the arts, the sciences, business, education, pre-professional and professional areas, and applied and technical disciplines. Through consultative services, continuing education, and the extended campus, the University seeks to provide service to the community and region. Research seeks both to advance knowledge in the subject matter areas with which the University is concerned and to support the primary function of teaching.

Central University College

The Central University College has two basic purposes: 1) to supervise and co-ordinate the General Education Program and 2) to supervise a centralized advising program to assist students during their first two years of academic work.

College of Applied Arts and Technology

The specific purposes of the College of Applied Arts and Technology are stated in their order of emphasis: 1) to provide selected instructional programs for the preparation of people for careers in the applied arts and technologies; 2) to contribute to the professional growth of individuals in their careers and to the elevation of technical disciplines through public service; and 3) to intensify and broaden

the base of knowledge within the applied arts and technologies through research.

College of Arts and Sciences

The College of Arts and Sciences has the following basic purposes: 1) to provide liberal arts courses for all undergraduate students in the university, some of which are designated general education courses; 2) to offer liberal arts courses leading to undergraduate and graduate degrees in arts and sciences; 3) to offer courses to prepare students for professional and pre-professional fields; 4) to provide academic specialization for students working for teacher certification in secondary education and to provide supporting courses for students working for teacher certification in elementary education; 5) to provide consultants from various disciplines for public service both in the state and in the nation as the need arises; and 6) to engage in research to advance knowledge and to improve classroom teaching methods.

College of Business

The purposes of the College of Business are: 1) to provide a wide variety of business subjects of general interest and technical instruction for people who have chosen business and accounting careers or the teaching of business as their field of interest; 2) to serve the community and region by encouraging the faculty to serve as consultants in their fields of specialization; and 3) to expand and advance knowledge by engaging in research in various fields of business.

College of Education

The major purposes of the College of Education are as follows: 1) to prepare teachers and other supporting school personnel; 2) to prepare certain non-school personnel for public service positions; 3) to provide public services to schools and other agencies it serves by making effective use of its faculty resources as consultants in their fields of specialization; and 4) to attain additional knowledge in the field of education by engaging in research on relevant issues.

College of Law Enforcement

The College of Law Enforcement has the following purposes: 1) to meet the needs of agencies in the public safety sector of society by

preparing student personnel for careers within that sector and to upgrade the several agencies by providing the in-service professional with a sound educational foundation and the ability and knowledge to create a more viable professional group, organization, or agency; 2) to prepare student personnel for teaching and administrative careers in law enforcement and traffic safety; 3) to provide research in the broad areas of law enforcement and driver and traffic safety; 4) to provide public and consultative service programs pertinent to law enforcement and driver and traffic safety to public and private police agencies, probation and parole agencies, correctional institutions, universities and colleges, youth-service-oriented agencies, and administrators and supervisory personnel in the public safety sector.

Graduate School

The Graduate School has as its basic purpose the administrative responsibility of all programs beyond the baccalaureate level at the University. It is charged: 1) to provide coordination between the colleges in the development of the University's graduate offering; 2) to act as a central source of information; 3) to recruit, admit and register students in advanced programs; 4) to oversee the advising of graduate students; and 5) to coordinate the University's program of graduate assistantships.

Richmond Community College

Richmond Community College has the following four basic purposes: 1) to assist in the development, coordination, and promotion of high quality instruction in a variety of technical, business, semi-professional, and service-oriented professions below the baccalaureate level; 2) to provide a centralized source of information and coordinate the dissemination of information on all programs offered within the university below the baccalaureate level; 3) to coordinate liaison between the University and the community and junior colleges within the state and region; and 4) to administer the special program of "student readmission" into associate degree programs.

Student Services Information

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EASTERN KENTUCKY UNIVERSITY

Expenses

Since registration and other fees and dormitory room rents are subject to change periodically, no attempt is made in this publication to itemize these costs. This information is available from the Office of Admissions prior to the beginning of each academic year.

Definition of Resident Student for Fee Assessment Purposes

The Policy on Classification of Students for Fee Assessment Purposes, adopted by the 1972 Kentucky Council on Public Higher Education, is applied to determine a student's eligibility for fees assessed Kentucky residents. The Policy provides the following rules and presumptions:

I. RULES FOR DETERMINATION OF STATUS

A. Every person having his domicile in Kentucky shall be entitled to classification as an in-state student for fee assessment purposes. Except as otherwise provided in this policy, no person having his domicile elsewhere than in this state shall be eligible for classification as an in-state student for fee assessment purposes.

B. The domicile of an unemancipated person is that of his parent.

C. Upon moving to this state, an emancipated person employed full-time, who provides persuasive evidence of domicile may apply for in-state classification for his spouse, provided the full-time employment is for a purpose other than that of assisting his spouse to attend an institution of higher education, and, provided that said person is not himself in this state primarily as a full-time student, his spouse and unemancipated children may at once be so classified, and may continue to be so classified so long as said person continues his domicile in this state.

D. Any person who remains in this state when his parent(s), having theretofore been domiciled in this state, removes from this state, shall be entitled to classification as an in-state student so long as his attendance at a college or colleges in this state shall be continuous.

E. The spouse of any person who is classified as an in-state student shall likewise be entitled to classification as an in-state student.

F. An unemancipated person whose parent is a member of the Armed Forces and stationed in this state pursuant to military orders shall be entitled to classification as an in-state student. The student, while in continuous attendance toward the degree for which he is

currently enrolled, shall not lose his residence when his parent is thereafter transferred on military order.

G. A person does not gain or lose in-state status by reason of his presence in any state or country while a member of the Armed Forces of the United States. However, a member of the Armed Forces of the United States, stationed in Kentucky on military orders, except members of the Armed Forces specifically assigned for educational purposes to state-supported institutions of higher education, shall be entitled to classification as an in-state student while on active duty in this state pursuant to such orders.

H. An emancipated person who moves to the Commonwealth within six months from the date of discharge from the military service with the stated intent of becoming a resident of the Commonwealth shall be permitted to count such time spent in the military service toward meeting the presumptions outlined in Section II (A).

II. PRESUMPTIONS. It shall be presumed that:

A. An emancipated person attempting to establish residence in his own right is presumed to have met the requirements for residency when he has maintained continuous residence in Kentucky in a non-student status for at least one academic year.

B. No emancipated person shall be deemed to have gained residence while attending any educational institution (public or private) in this state as a full-time student, as such status is defined by the governing board of such institution, in the absence of a clear demonstration that he has established domicile in the state.

C. Once established, a domicile is not lost by mere absence unaccompanied by intention to establish a new domicile.

D. The notarized certification of the parent or legal guardian may be required to attest to the meeting of conditions required to be emancipated.

E. In the event a person's parents should have separate domiciles, his domicile shall be that of the parent having legal custody. In the event neither parent has legal custody, his domicile shall be that of the parent furnishing him the greater financial assistance or the parent having the larger income if neither furnishes such greater assistance.

III. APPEAL

A. A determination of residency for fee purposes is made at the time of initial enrollment. The student who, due to subsequent events, becomes eligible for a change in residency classification shall notify

the Dean of Admissions and make an application for a change in residency status.

B. The Dean of Admissions makes the initial determination of residency status and receives all requests for change in residency status. Appeals on decisions of the Dean of Admissions may be made to the institutional Committee on Non-Residence Status. Decisions of the institutional committee shall, at the student's request, be forwarded for review by the State Board of Review of the Kentucky Council on Public Higher Education. The Board of Review will make recommendations in all cases reviewed on appeal to the Board of Regents of the University.

For information concerning residency status, the student should contact the Dean of Admissions.

Living Accommodations

Eastern Kentucky University maintains a number of residence halls for single students. Within limits of the capacities of these halls all single graduate students may live in University facilities.

All students living in University facilities are subject to the regulations of and supervision by the University.

All rooms have single beds for which pillows, pillow cases, and sheets are furnished. The University bears the expense of having these sheets and pillow cases laundered. Each student is expected to provide his own blankets, towels, and similar articles.

Residence Hall Policies

All students desiring housing at Eastern Kentucky University should complete an application for a room reservation and forward it to the Bursar's Office, Office of Business Affairs, Eastern Kentucky University, Richmond, Kentucky.

An advance rental payment of \$50.00 should accompany the application. This payment is necessary before a reservation will be made. It will be applied to the rent for the first semester following enrollment. The advance payment will be refunded in full if cancellation is received by July 15 for the first semester, December 15 for new students for the second semester, or May 15 for the summer term respectively.

Reservations will be held only through the day preceding the first

day of classes, unless students have made arrangements with the Residence Hall Director for late arrival.

Partial refunds of rentals after a room is accepted may be made only in exceptional instances. In no case shall a refund of rent be made to students moving from University housing at their convenience.

Room rent is paid by the semester, and is due and payable at registration.

Student Identification Card

Each full-time student who has paid the full fees for a semester including the activity fee, will be issued a personal identification card. This card entitles the student to admission to all University athletic contests on the campus and to certain other programs sponsored by the University. It must be carried by the student at all times for official identification on the campus, and all full-time students must have a validated ID card before registration is completed.

Each part-time student is issued a non-laminated card for identification purposes only. It is not valid as an activity card.

If the full-time student card is lost, it must be replaced. A replacement fee of \$10.00 is assessed. Application for replacement must be made at the Office of Student Organizations and Activities, Powell Bldg.

Refund Policy

Refunds on fees and room rental charges, when authorized, shall be made on a schedule based on the time elapsed during the semester or summer term. During the semester, refund of a portion of the fees and room rental paid shall be made as follows: first and second weeks, 75%; third and fourth weeks, 50%; fifth and sixth weeks, 25%. After six weeks no refunds will be made. During the summer term, the following schedule will determine the portion refunded; first week, 75%; second week, 50%; third week, 25%. After three weeks, no refund will be made. (For the purpose of this calculation, the week will begin with the first day of registration for the semester or summer term.)

The percentage of refunds shall apply to all fees and room rentals paid, except that no refund can be made on fees collected for student insurance premiums, class dues, and similar fees.

No refund will be made for reduction of course load unless it results from cancellation of a class or the student having been per-

mitted to enroll in a course for which he was not eligible. Refunds for reduction of course load must be approved by the Vice President for Academic Affairs.

Food Service

The University operates several food service facilities on the campus. Large modern, air-conditioned cafeterias in the Powell Building, Martin Hall, and serve attractive, wholesome meals at reasonable prices. In addition, snack bars are located in the Powell Building, Case Hall, and Martin Hall.

Graduate Assistantships, Scholarships, Financial Aid, And Student Employment

GRADUATE ASSISTANTSHIPS

Graduate assistantships are available to unusually well qualified students in some departments. Duties may include laboratory supervision, teaching, and research-related tasks. Stipends include remission of the out-of-state registration fee and \$2,200.00 for the academic year. Applications of assistantships may be obtained from the Dean of the Graduate School. Preference in awarding assistantships will be given to individuals able to support applications with Graduate Record Examination scores.*

As a condition of their appointment as graduate assistants, students shall live in dormitory housing provided by the University. Exceptions to this policy are made in the instance of married students living with their spouses and single students living with their parents, parent, or legal guardian in Richmond, Kentucky.

Students holding a graduate assistantship should not carry a combined teaching and course load in excess of fifteen semester hours. A non-teaching assignment of sixteen to twenty hours of work per week is considered the equivalent of a three hour teaching load.

Applicants must meet all the requirements for admission to the Graduate School prior to being awarded an assistantship.

PHI DELTA KAPPA SCHOLARSHIP

The Eastern Kentucky University Chapter of Phi Delta Kappa, an education fraternity, awards a full tuition scholarship each year to a full-time graduate student in education. Inquiries may be sent to the

*Scores on the Undergraduate Record Examination are considered equivalent to "GRE" scores.

Graduate Office. Applications are not considered until the student has completed one semester of graduate study.

LOAN FUNDS

The National Direct Student Loan Program at Eastern Kentucky University provides low interest loans to full time students. Priority will be given to those students who have the greatest financial need and who show academic promise. To receive application forms and statement of conditions relating to this loan program. The applicant should send their request to the office of Student Financial Assistance, Eastern Kentucky University.

The Student Aid Society Inc. Loan Fund at Eastern Kentucky University is designed to help worthy students complete their education. It has been augmented from time to time by gifts from different individuals and organizations and is being increased annually. Small loans are available to students who are currently enrolled. Those having high scholastic records will be given preference in the granting of loans. This fund makes it possible for a student to borrow a small amount of money on a personal note at a legal rate of interest. Students who desire further information concerning this fund should contact the Chairman of the Student Aid Committee.

FEDERALLY INSURED LOAN

Eastern Kentucky University is a participant in the Federally Insured Loan plan which endorses loans made by home town financial institutions to deserving individuals who are either currently enrolled or have been accepted for admission to Eastern Kentucky University. The application for such a loan must be endorsed by Eastern Kentucky University before submission to the bank or other financial institution.

Under this program a graduate student may borrow up to \$2,500 per academic year. The federal government will pay the interest on such a loan while the student is enrolled and nine months after the student ceases to be a full time student. Loan Recipients will begin payment plus interest nine months after graduation, applications and further information for the Federally Insured Loan may be obtained from the student's home town Lending Institution or by writing the Office of Student Financial Assistance.

STUDENT EMPLOYMENT

There is opportunity for student employment, whereby a limited number of students may earn part of their expenses by working in the

cafeteria, library, bookstore, post office, dormitories, administrative offices, University dairy and farm, maintenance department, and faculty offices. Some students may also secure part-time employment in Richmond stores, restaurants, and other businesses.

Student labor should be limited so that work hours will not take too much of the student's study time. While ten hours per week is an average labor load, circumstances may permit a student to work more hours. No student, however, should enter the University without sufficient money for the semester unless there is a definite guarantee of work to support him. For further information and application forms, write to the Office of Student Financial Assistance, Eastern Kentucky University.

THE WORK-STUDY PROGRAM

Under a grant from the Federal Government, made possible by the Economic Opportunity Act of 1964, eligible students may be employed on a part-time basis while in full-time enrollment at Eastern. This program supplements the part-time institutional program which has been in effect at Eastern for many years.

A student or prospective student from a low-income family is eligible for employment under the Federal Work-Study Program. The student must enroll for a minimum of nine semester hours of course work each semester and maintain at least a "B" average.

Placement in jobs will depend upon the skills, interests, and aptitudes of the student and the availability of positions open at a given time. Students may work up to 15 hours per week and can earn up to \$24 per week, depending upon the type of job assigned. Payments are made to the student employee on a semi-monthly basis.

Students may continue working under this program as long as their academic performance and job performance are satisfactory.

This program is combined with other programs of financial assistance (the National Direct Loan Fund and the Work-Study Program mentioned above) to the extent necessary to enable the student to meet his educational expenses.

For further information and an application form, write to the Office of Student Financial Assistance.

OTHER FINANCIAL ASSISTANCE

The Veterans program at Eastern Kentucky University is approved by the Veterans Administration for the education of veterans and their eligible dependents. Students concerned with veterans training

should have, at the time of registration, a Certificate of Eligibility. This is secured from the Regional office of the Veterans Administration. The University is responsible for the completion of certain Veterans Administration forms and for the other necessary information about students who receive this aid.

VOCATIONAL REHABILITATION

Vocational Rehabilitation assistance for students with physical handicaps of various kinds may be approved. They may receive financial benefits as approved by the Department. Students who wish to consult with a representative relative to vocational rehabilitation should write the Department of Education, Department of Vocational Rehabilitation, Frankfort, Kentucky, for specific instructions.

VETERANS ADMINISTRATIVE BENEFITS

War Orphans, Widows, Children, and Wives of Deceased and Disabled Veterans should contact the Veterans Administration, 600 Federal Place, Louisville, Kentucky. Application forms are available in the Student Financial Aid Office.

LAW ENFORCEMENT GRANTS AND LOANS

As authorized by the Omnibus Crime Control and Safe Streets Act of 1968.

LOANS

The Law Enforcement Student Loan Program makes available a ten-year interest bearing (7%) note of up to \$1,800 per academic year to full-time students enrolled in undergraduate or graduate programs leading to degrees in areas directly related to law enforcement. The loans may be cancelled at the rate of 25 percentum for each year of full-time employment in a public, state, local, or Federal law enforcement agency.

GRANTS

The Law Enforcement Student Grant Program makes available payment for direct expenses and may not exceed cost of tuition, fees, and cost of books. Beneficiaries must be full-time employees of a publicly funded law enforcement agency and must agree to remain in the service of the employing agency for a period of two years following completion of any course of study supported by a grant.

For further information and application, write the Office of Student Financial Assistance.

STUDENT HEALTH SERVICES

University health services are furnished full time by a physician and a staff of registered nurses. Services at the Infirmary are available 24 hours a day with the exception of vacation periods and other announced dates. The modern infirmary has 10 beds for short time illness or overnight care. Surgery or serious illnesses will be referred to one of the several general hospitals in the area.

Guidance And Counseling

Through its student affairs offices, the University relates to students in various aspects of campus life. Some of the more specific areas are: (1) physical and mental health of students; (2) coordination of student activities and clubs; (3) on-campus and off-campus living; (4) maintenance of personal records; (5) operation of a student counseling office; (6) registration; (7) international student advisement; (8) social programs; (9) veterans affairs; and (10) student financial assistance.

The entire University faculty and administrative staff assists in various aspects of student personnel work, co-ordinated through the Office of Student Affairs.

The University Counseling Center has a staff of full-time counselors to assist students with problems of educational-vocational goal planning, curricular choice, personal-social adjustments and serves as a referral agent for University psychiatric services.

The Center is located in Ellendale Hall, near the center of campus.

Cultural Activities

Every effort is made at Eastern to surround the students with cultural advantages. The programs presented are planned as part of the student's education and much time and effort is put forth to provide programs that will be of benefit to students.

Assemblies are held regularly and special assemblies are held when the occasion warrants. While programs at these assemblies are designed primarily for the students and faculty, visitors to the campus are welcome to attend. Programs planned for these assembly periods include appearances by nationally recognized lecturers and artists.

A Fine Arts and Lecture Series is presented at the University in conjunction with the University Center Board. Students are admitted to these excellent programs without charge, but they must present

identification cards for admission. These programs feature some of the outstanding individuals and groups in the nation.

Art Exhibits, arranged by the Art Department, are on continuous exhibition in the Art Gallery, Gammack Building. Every effort is made to include in the exhibits the works of major artists, past and present, from across America and around the world. Also included are the works of art students, art majors, and faculty. In addition, special exhibits are periodically arranged for showing in the Powell University Center.

Church Affiliation is recognized as an important factor in the life of any student. Eastern is a state-supported institution and is, therefore, non-denominational. The University has a basic objective in helping to develop ethical character among all students. There is close cooperation between the institution and several fine churches in Richmond. Students are encouraged to attend church services in town. Eastern makes spaces available for several student church organizations to meet on the campus.

Presently, three downtown churches have built student centers adjoining the campus. Other student centers will be built in the near future on sites which have already been purchased.

The Chapel of Meditation, located in the center of the campus, is a non-denominational chapel, served by a chaplain, to minister to the spiritual and meditative needs of the University community.

Plays presented by the University Theatre are a significant contribution to Eastern's cultural life. Three major productions each year, along with studio productions, and a drama program in the summer, provide numerous opportunities in acting, directing, and technical theatre. Participation in every aspect of the theatre program is open to all students.

In conjunction with the theatre program, there is a chapter of Alpha Psi Omega, national honorary dramatics fraternity, which gives recognition to students of outstanding acting and technical ability.

The University Theatre is affiliated with the following professional dramatics and speech organizations: American National Theatre and Academy, American Educational Theatre Association, Speech Association of America, United States Institute of Theatre Technology, South Eastern Theatre Conference, Southern Speech Association, Kentucky Speech Association, and the Kentucky Council of Performing Arts.

Cultural Opportunities in Surrounding Centers: A broad panorama of cultural events is accessible by automobile in Louisville, Lexington, and Cincinnati. Students are encouraged to attend special events of interest.

Placement Office

The Placement Office is maintained by the University and provides free service to students and alumni in obtaining positions in schools, business, and industry. Its objective is to assist job candidates to meet employers; it does not guarantee a job for the candidate.

Each year representatives of schools, industry, business, and government agencies come to this office searching for graduates with specific backgrounds, experience, and ability to fill their positions and vacancies.

The Placement Office provides up-to-date job listings in numerous fields. It offers the applicant opportunities to have interviews with numerous prospective employers.

The Placement Office prepares and distributes bulletins to those who have filed credentials. The bulletins list all known employment opportunities supplied by employers by letter, telegraph, or through their own placement bulletins.

Students receive the information via campus bulletin boards, department heads, and the *Eastern Progress*, the weekly student newspaper. Alumni receive the listings by mail and through the *Progress*, which they receive every two weeks.

The Alumni Association

The Alumni Association of Eastern has as its purpose to promote fellowship among the graduates and to stimulate mutual interest and concern between the University and the Alumni. Eastern now has over 26,000 graduates. Many of these men and women hold more than one degree from the University. All Eastern graduates are members of the Eastern Alumni Association, "with all the rights and privileges appertaining thereto." All former students who have as much as a semester's work at Eastern, former faculty and staff members, are eligible for associate membership. The Alumni Association encourages all alumni to make an annual gift to the Alumni Fund. The minimum gift is \$5.00, which serves as the "dues" for active membership in the Association. This is used by the Association's Alumni Office to help defray operating expenses. The remainder of any

contribution will be used for the specific purpose designated by the contributor. Life memberships are \$75.00 for single and \$100.00 for joint memberships.

The Alumni Association sponsors Homecoming in the fall, KEA Reception in the spring, and Alumni Day at commencement time. The latter features an Alumni Dinner honoring the 15, 25, 40, 50, and 60 year classes, and the presentation of an Outstanding Alumnus Award. In addition, active alumni chapters at Louisville, Greater Cincinnati, Ashland-Huntington-Ironton (Tri-State) area, Pulaski County, Pike County, Perry County, Harlan County, Breathitt County, Fayette County, McCreary County, Dayton and Hamilton, Ohio, Washington, D.C., and three in Florida, have numerous meetings throughout the year, open to all alumni and former students in the area. Additional Eastern alumni chapters are expected to be installed in the future.

The Eastern Alumni Association is a member of the American Alumni Council and the Joint Alumni Council of Kentucky, an organization made up of the alumni of the six state-supported institutions: Eastern Kentucky University, Morehead State University, Murray State University, Western Kentucky University, University of Kentucky and Kentucky State College.

The Eastern Alumnus, official magazine of the Alumni Association, is published each fall and spring by the Association for its members. Subscription is included in the membership dues.

The Alumni Office is conveniently located in the Mary Frances Richards Alumni House where alumni and students may get bulletins and information. This is a good place for former students to find the addresses of their colleagues. Graduates, former students and faculty members are always welcome at the Alumni Office.

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EASTERN KENTUCKY UNIVERSITY

Admission To The Graduate School Degrees, Programs, And Requirements

The Graduate School, in cooperation with the College of Applied Arts and Technology, the College of Arts and Sciences, the College of Business, and the College of Education, offers the following degree programs:

College of Applied Arts and Technology

Master of Science Degree

Criminal Justice

Industrial Education

Industrial Technology

Specialist Degree in Technology

Industrial Education

College of Arts and Sciences

Master of Arts Degree

English

French

Geography

History

Political Science

Psychology

Sociology

Spanish

Master of Music Degree

Master of Music Education Degree

Master of Public Administration Degree

Master of Science Degree

Biology

Chemistry

Clinical Psychology

Geology

Mathematics

Physics

School Psychology

College of Business

Master of Business Administration Degree

College of Education

Master of Arts in Education Degree

Elementary Education — General, Reading, Early Childhood

Counseling — Elementary, Secondary

Health Education — School Health, Allied Health Sciences

Library Science

School Social Work

Special Education

Secondary Education

Art

Biology

Business Education

Chemistry

Earth Science

English

- French
- General Science
- Geography
- History
- Home Economics
- Industrial Education
- Library Science
- Mathematics
- Music
- Physical Education
- Physics
- Political Science
- Reading
- Sociology
- Spanish
- Master of Arts Degree
 - Industrial and Community Services — Rehabilitation Counseling
 - Student Personnel Services
- Master of Science Degree
 - Physical Education
 - Recreation and Park Administration
- Specialist in Education
 - Educational Administration and Supervision
 - Elementary Education
 - Physical Education
 - School Counseling
 - Student Personnel Services
- Fifth and Sixth Year Certification Programs for Teachers and School Service Personnel
 - Directors of Pupil Personnel
 - Elementary and Secondary Principals
 - School Business Administrators
 - Superintendents
 - Supervisors
- The Joint Doctoral Program in Education
(Ed.D. programs are offered cooperatively with the University of Kentucky).

TYPES OF ADMISSION

Students who intend to pursue a particular graduate program should refer to the section of this *Catalog* pertaining specifically to that program. Students not intending to fulfill requirements of specific programs may be admitted to the Graduate School in a special nondegree category, by meeting the requirements delineated in the section below entitled "General Admission Requirements."

GENERAL ADMISSION REQUIREMENTS

Admission to the Graduate School at Eastern Kentucky University is based upon evidence that the applicant will be able to pursue creditably a program of graduate study in his field. Admission to the Graduate School should not be construed, however, as **admission to**

candidacy for the degree, described later. Application forms may be secured from the Office of the Graduate School.

Applicants should be graduates of **accredited** four year institutions authorized to grant the baccalaureate degree.

The minimum undergraduate grade point ratio acceptable for unqualified admission to a degree program is 2.4 overall (4.0=A). An individual who applies for a degree program but does not meet the above requirements may be admitted for graduate study on a non-degree basis. Conditional admission to a degree program may subsequently be granted to a limited number of individuals upon appeal to the Graduate Council after they have demonstrated a high level of performance during the initial twelve hours of graduate study, presented satisfactory G.R.E. scores, and shown evidence of their potential to succeed in graduate school. The minimum grade point ratio for admission to nondegree programs is 2.0.

Specific program requirements are listed in college and/or departmental sections.

Students assume responsibility for filing complete admission data with the Office of the Graduate School, including two official copies of transcripts of all college credits. An official transcript must bear the seal and signature of the sending institution and should be transmitted directly to the Dean of the Graduate School.

The Graduate School reserves the right to withdraw without credit or refund any student for whom application is incomplete at the end of the first enrollment.

No student may receive graduate credit for a course without admission to the Graduate School.

All programs assume certain formal and informal prerequisites. Normally any deficiencies in preparation must be resolved during the first enrollment.

UNDERGRADUATE ADMISSION

An undergraduate student who needs not more than nine semester hours in one semester (or three semester hours in one summer session) to complete all of the requirements for a baccalaureate degree may be allowed to register for graduate credit work under the conditions described below.

All work for undergraduate credit will be completed during that semester or summer session.

The total registration for all work will not exceed twelve semester hours in a semester (or six semester hours in a summer session).

All work to be counted for graduate credit will be approved **in advance** by his college dean and advisor and by the Dean of the Graduate School.

The student must meet all pertinent conditions for admission to the Graduate School, and credits must not be used to meet undergraduate requirements.

VISITING STUDENTS

Because of its unique programs and facilities, faculty, diversified institutes and workshops, Eastern is attractive to many students who have been admitted to other accredited graduate schools. Students in good standing may elect to gain admission for one term by having their graduate dean submit a statement to that effect or by having him sign and return to Eastern a "Visiting Student Certificate," copies of which may be obtained from the Office of the Graduate School.

INTERNATIONAL STUDENT ADMISSION

International students meeting general admissions requirements and for whom Eastern has appropriate work at the graduate level are invited to make application. Such applications should be supported, however, by satisfactory evidence of their ability to meet the requirements of scholarship in English. A copy of the results of the "TOEFL" examination (Test of English as a Foreign Language), given in a large number of centers throughout the world by Educational Testing Service of Princeton, New Jersey, should be submitted by all applicants for whom English is not a native language.

GRADUATE RECORD EXAMINATION

All degree candidates must submit, preferably at the time of application for admission but no later than the completion of the first session of their graduate work, the scores on the aptitude sections of the Graduate Record Examination.* Certain programs require Advanced Graduate Record Examinations in the subject field in addition to the aptitude sections. The Graduate Record Examinations are administered at Eastern in October, January, April and June. Applications to take the Graduate Record Examination must be received in the Office of the Educational Testing Service, Princeton, New Jersey, more than three weeks in advance of the testing date. Application forms are available in the Office of the Dean of the Graduate School. It is the student's responsibility to apply for, to take the examination,

*The Undergraduate Record Examination is accepted in lieu of the G.R.E. All Eastern seniors are strongly advised to take this examination.

and to have the scores sent to the Dean of the Graduate School at Eastern.

PROGRAM PLANNING

After receiving notification of admission to the Graduate School and of the appointment of an advisor or graduate committee, the student should take the initiative to contact his chairman and discuss his objectives carefully. This conference should take place after the student has familiarized himself with program purposes and pertinent regulations as they are described in the *Catalog* and **before registration**. When prior conferencing is not possible, the student may obtain approval for the first semester's work in writing or on Registration Day. However, the complete program should be developed, if at all possible, during the first semester of enrollment.

ACADEMIC LOAD

An academic load of nine to 15 hours is considered permissible during the regular semester for residence purposes. Graduate assistants are permitted to carry a maximum course load of 12 hours. Assistants carrying less than nine hours must register for Residence 600 (RES) and pay the full registration fee. During the summer session, students carrying six to nine hours are considered full-time. Various combinations of workshops, short term courses, and regular summer courses are permissible provided the total contact hours during any single instructional day does not exceed four hours. Any exceptions to maximum load limits stated must be made by the Dean of the Graduate School.

REGISTRATION

Graduate students should register on the dates stipulated in the University calendar. Registration packets should be obtained from the Office of the Graduate School; the advisor should approve and initial the Registrar's Schedule Card; the advisor and student bear responsibility for courses scheduled, subject to the policies and approval of the Graduate School; the student is responsible for clearance of motor vehicle, housing arrangements, and payments of all fees and assessments in accordance with prevailing University policy.

For each registration, it is necessary to submit as far in advance of registration as possible a notification form which may be obtained from the Office of the Graduate School.

PRE-REGISTRATION

Graduate students in good standing and new students admitted to

their programs have the opportunity to pre-register for the Fall Semester and Spring Semester. Registration materials may be picked up in the Office of the Graduate School and classes selected in conference with the advisor on the following schedule (approximate):

Fall Semester	Mid-April
Spring Semester	Early-December

Students with interruptions of study on campus who wish to participate in pre-registration should notify the Graduate School of their plans to continue study, furnishing full names and Social Security numbers, at least three weeks in advance of the times specified above. Full-time students should watch "FYI", *Eastern Progress*, and bulletin boards for dates on registration.

A prerequisite to pre-registration is pre-advisement. The Graduate School reserves the right to suspend or alter registration orders not in consonance with the individual's planned program or in the instance of closed or cancelled sections. Program modifications necessitated by pre-registration should be accomplished through the regular drop-add procedure on the dates designated. Individuals who pre-register and later cancel the registration are liable for a charge of 10 per cent of the registration fee.

GRADE POINT AVERAGE

Candidates for a master's degree must have an average standing on all work attempted at ECU of at least 3.00 on a 4.00 scale. No credit shall be granted for a grade below C. Students may repeat a course to improve standing only with the explicit permission of their advisor and the Dean of the Graduate School.

ADMISSION TO CANDIDACY

A graduate student must be admitted to candidacy before he is eligible for the master's degree. At least nine hours of graduate credit must be earned before admission to candidacy, and at least 12 hours must be earned after admission to candidacy.

All conditions of admission to the Graduate School should have been satisfied.

Graduate Record Examination scores for the combined aptitude tests and departmental requirements on Advanced Tests shall have been satisfactorily met.

No student shall become a candidate without a minimum grade point standing of 3.0.

A complete program of studies for the program shall have been

devised, approved, and filed with the committee chairman, department chairman, and Dean of the Graduate School. Subsequent changes, while permissible, must be approved by these parties in advance.

While the student should initiate candidacy proceedings, the committee chairman is responsible for the recommendation to the Graduate School and such intermediate bodies as exist.

All conditions for admission to candidacy must be met **prior** to scheduling of the comprehensive examinations.

LANGUAGE REQUIREMENTS

In graduate programs requiring competence in a foreign language, the requirement may be met in one of three ways: Twelve hours of college credit in an appropriate language may be accepted. A reading examination may be taken covering material appropriate to the discipline. Achievement of a grade of "B" in a designated course, offered during the fall semester, will be accepted as meeting the requirement.

Students must satisfy the language requirement prior to scheduling of the comprehensive examinations.

TIME REQUIREMENTS

A graduate student is expected to complete requirements for the master's degree no later than five years after beginning course work. The minimum time interval required for completion of a graduate degree shall be two semesters of full-time study. An academic load of six semester hours of credit shall be regarded as full-time during an eight week summer term and a minimum of nine hours of such credit shall be regarded as a full academic load during a regular semester.

MINIMUM HOURS REQUIRED

All master's degree programs, specialist's degree programs, and the sixth year programs for Rank I require a minimum of thirty semester hours.

At least half the course work required for any degree program must be satisfied with courses open only to graduate students (600 level).

MASTER'S THESIS

Students who submit a thesis in partial fulfillment of the master's degree must prepare it in conformity with the regulations approved by the Graduate Council. The original approval page bearing signatures of the graduate committee must be included with two type-

written, clear, unbound copies of the thesis and presented to the Graduate School Office at least **two** weeks prior to Summer Commencement and **three** weeks prior to the end of the Fall and Spring Semesters. These two copies are bound and become the property of the University Library. If any additional bound copies are desired by the student or his department, they should be presented directly to the Library or a commercial bindery.

Theses must be on paper of at least 50 per cent rag or cotton fiber content and must be in a form acceptable to the Graduate School. Instructions for the preparation of theses should be obtained from the Graduate Office **before** the thesis is typed. **Reproduction by multilith is strongly recommended.**

Theses must be developed under the direction of a member of the Graduate Faculty.

APPLICATION FOR THE MASTER'S DEGREE

A student planning to receive the master's degree in May should apply before the end of the Fall semester. Candidates for the August Commencement should apply not later than the beginning of the Spring semester. Applications should be filed in the Office of the Graduate School. Fees are to be paid at the Business Office and receipts presented in the Office of the Graduate School at the time the applications are filed.

Students will be considered candidates for graduation only if they have a graduate gradepoint average of 3.0 or higher at the inception of the term prior to their scheduled commencement.

COMPREHENSIVE EXAMINATION(S)

All candidates shall perform satisfactorily on a written and/or oral examination of the contents of their program of studies. In some instances, the defense of the thesis shall suffice. Particulars are specified by program. Comprehensives are not to be given prior to admission to candidacy. Comprehensives are scheduled **after application for the degree has been filed** and evidence exists indicating that the student should complete all degree requirements during the term in question.

Committee chairmen shall certify satisfactory completion of the comprehensives to the Dean of the Graduate School no later than ten days in advance of Commencement.

A review period of not less than 60 days nor more than one year is usually required of candidates who fail the comprehensives initially.

TRANSFER OF CREDIT

Candidates for the master's and specialist's degrees are restricted to a maximum of six semester hours of credit by transfer of work completed at another accredited institution. Official copies of transcripts must be submitted before any transfer credit can be accepted.

Credits earned at other institutions may be transferred only when grades of "B" or better have been earned.

In all cases, course work so completed must be acceptable to the student's graduate committee.

COURSE NUMBERING

Courses numbered in the 500 series are open to seniors and graduate students who meet course and program prerequisites. Additional appropriate experiences are required of all graduate students enrolled in the same course with undergraduates. Courses numbered in the 600 series are open only to graduate students.

CHANGE OF SCHEDULE

The University reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

WITHDRAWAL FROM THE UNIVERSITY

Students who find it necessary to leave the University under any conditions must obtain and complete an official Withdrawal Card from the Office of Student Affairs. Students not officially withdrawing shall receive grades of "F" for the semester's course load.

SECOND MASTER'S DEGREE REQUIREMENT

Students desiring to pursue a second master's degree at Eastern Kentucky University shall have completed all requirements for the first master's degree at Eastern or other accredited university. In general, the same basic requirements for general admission, residence, admission to candidacy, and other conditions previously stated in this catalog relative to the first master's degree are also applicable to the second degree with the following exceptions:

1. A maximum of twelve semester hours of completed graduate work from the first master's degree may be applied toward the second degree if such courses are appropriate for the second program and are approved by the graduate advisor.

2. If the second master's degree involves certification (e.g., the Master of Arts in Education Degree) all requirements for the certificate must be met prior to the completion of the degree.

Candidates for a second master's degree should file application for admission to graduate school and identify their second program prior to registration for additional coursework. The student should then contact the chairman of the department offering the second program and plan a complete program of studies. Individual programs have specific requirements which must be met before pursuing a second master's degree. Normally, any deficiencies in preparation for a second master's degree must be resolved during the first enrollment.

SPECIALIST DEGREE REQUIREMENTS

The University offers advanced graduate work leading to the Specialist Degree. Beginning graduate students interested in two year programs with special preparation for teaching or professional service opportunities in post-secondary technical schools, junior or senior colleges should seek early advisement in order to assure proper program development.

Candidates for specialist degrees must possess an undergraduate grade point average of at least 2.5.

Candidates for specialist degree status must offer a graduate grade point average of 3.3.

Prior to admission to candidacy for the Specialist Degree, students must present a score on the combined aptitude tests of the Graduate Record Examination at the level of the 65th percentile, a value derived from scores achieved by Eastern seniors within programs.

Twelve hours of course work must be completed prior to graduation after admission to candidacy for the degree.

JOINT DOCTORAL PROGRAMS

Eastern Kentucky University in cooperation with the University of Kentucky, offers the degree, Doctor of Education. The graduate student may make application for admission to the program after completion of 18 hours of graduate work or subsequently.

Admission to the program is considered by a joint screening committee selected from faculty representing the two institutions.

The candidate may continue in residence at Eastern Kentucky University for one school year, completing a maximum of 30 semester

hours beyond the master's degree, prior to transfer to the University of Kentucky.

Throughout the program term, the student shall be enrolled in both schools but will pay fees only to the resident University.

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EASTERN KENTUCKY UNIVERSITY

COLLEGE OF APPLIED ARTS AND TECHNOLOGY

WILLIAM E. SEXTON, Dean

KENNETH S. HANSSON, Associate Dean

Departments within the College of Applied Arts and Technology offer programs leading to Master of Science and Specialist in Technology Degrees. The Department of Industrial Education and Technology has programs leading to the Master of Science Degree in the fields of industrial education and industrial technology and the Specialist in Technology Degree.

The Departments of Home Economics and Industrial Education and Technology, in cooperation with the College of Education and the Graduate School, offer programs in their respective disciplines leading to the Master of Arts in Education Degree.

Agriculture (AGR)

W. HOUSEHOLDER, Chairman

Course Descriptions

AGR AGRICULTURE

- 501 Special Problems in Agriculture. Three hours. A.**
A course for exceptional seniors and graduate students involving independent study and research related to problems of a theoretical and/or practical nature. (May be repeated once for a total of six hours.)
- 570 Advanced Study in Technical Agriculture. Three to fifteen hours.**
Advanced technical study with emphasis upon updating technology and development of understanding and technical competency in:
- 570B Agricultural Mechanization. Three hours. A.**
- 570C Dairy Herd Management. Three hours. A.**
- 570D Farm Livestock Management. Three hours. A.**
- 570E Farm Service and Supplies. Three hours. A.**
- 571 Production Management in Agriculture. Three hours. A.**
Application of advanced technology in the production of agricultural products; updating in agricultural areas such as production methods, new equipment, economic trends and labor management.
- 577 Workshop in the Conservation of Natural Resources.**
Three hours. A.
Currently, this workshop is held in the summer for teachers return-

AGR AGRICULTURE

ing for graduate work. Instruction is given in the areas of soil, water, fish and wildlife, forest conservation and methods of teaching related units at the elementary and junior high level.

OHO ORNAMENTAL HORTICULTURE

570 Advanced Study in Technical Horticulture. Three hours. A.
Advanced technical study with emphasis upon updating technology and development of understanding and technical competency in:

570A Ornamental Horticulture. Three hours. A.

570B Turfgrass Ecology. Three hours. A.

571 Production Management in Horticulture. Three hours. A.
Application of advanced technology in the production of horticultural products; updating in horticultural areas such as production methods, new equipment, economic trends and labor management.

Home Economics (HEC)

ROBERTA B. HILL, Chairman

In cooperation with the College of Education and the Graduate School, a Master of Arts in Education Degree with emphasis in home economics is offered. An applicant is expected to present a major in Home Economics Education with an overall grade point average of 2.40.

Admission to candidacy requires satisfactory scores on the Graduate Record Examination Aptitude Test.

The student is expected to meet the requirements for the Master of Arts in Education Degree. A minimum of 12 hours in home economics content courses is required; a thesis is optional. A program may be selected to: 1) meet requirements for supervising teachers (12 hours in Home Economics Education are needed); 2) meet requirements for kindergarten teaching under Home Economics; or 3) strengthen content area.

Course Descriptions

CDF CHILD DEVELOPMENT AND THE FAMILY

533 Marital Communications. Three hours. A.

Prerequisite: Approval of instructor.

The married person, self concept and self system in relation to communication; avoidance mechanism of communication; techniques of family communication.

537 Family Problems in the Geriatric Period. Three hours. A.

Prerequisite: Approval of instructor.

The senior citizen and the transition in family ties: anxieties, attitudes, behavior, and marital life.

538 Seminar in Family Life. One to three hours. A.

Formerly HEC 538.

Formerly HEC 505.

Prerequisite: Approval of instructor.

Students will be able to concentrate their interests in an intensive study of specific areas of the family and its interpersonal relation-

CDF CHILD DEVELOPMENT AND THE FAMILY

ships. May be repeated by graduate students to a maximum of six hours.

546 Laboratory for Organization and Administration of Preschools. Two hours. A.

Formerly HEC 546.

Prerequisite: CDF 547 or concurrent enrollment.

Experience in administration of preschools.

547 Organization and Administration of Preschools. Three hours. A.

Formerly HEC 547.

Formerly HEC 507, Organization and Administration of the Nursery School.

Prerequisite: CDF 345.

Study of the history of preschool education and its present organization and administration.

548 Seminar in Child Development. One to three hours. A.

Formerly HEC 548.

Formerly HEC 504, Current Trends in Child Development.

Prerequisites: CDF 241, 341 and six hours in Child Development and the Family.

Current concepts and trends in child development; recent research and literature. May be repeated by graduate students to a maximum of six hours.

549 Special Problems in Child Development. One to three hours. A.

Formerly HEC 549.

Prerequisites: CDF 548 and approval of instructor.

The student chooses a problem and works under the supervision of the instructor. May be repeated by graduate students to a maximum of six hours.

631 Relationships in Marriage and Family. Three hours. A.

Prerequisite: Approval of instructor.

The attitudes and behaviors of husband and wife as related to psychological and physiological responses within the family.

HEC HOME ECONOMICS: GENERAL AND EDUCATION

556 Special Problems in Family Economics and Management.

One to three hours. A.

Formerly HEC 556 a, b, c, Special Problems in Home Economics.

Formerly HEC 456 a, b, c, Special Problems in Home Economics.

Prerequisite: Approval of instructor.

The student chooses a problem and works under the supervision of the instructor. May be repeated by graduate students to a maximum of six hours.

563 Occupational Programs in Home Economics. Three hours. A.

Prerequisite: Approval of instructor.

Development of occupational programs in vocational home economics, including philosophy, curriculum, space and equipment needs, teaching methods and materials, program evaluation and federal-state funding.

565 Workshop in Home Economics Education. One to three hours. A.

Prerequisite: Approval of instructor.

Concentrated work on a current aspect in vocational home economics. May be repeated to a maximum of six hours.

HEC HOME ECONOMICS: GENERAL AND EDUCATION

- 566 Special Problems in Home Economics Education. One to three hours. I, II, S.**
Prerequisite: Approval of instructor.
The student chooses a problem and works under the supervision of the instructor. May be repeated by graduate students to a maximum of six hours.
- 660 Curriculum Development in Home Economics. Three hours. A.**
Prerequisite: Approval of instructor.
Educational trends and their implications for home economics in the secondary school; principles of curriculum construction as applied to junior and senior high school home economics.
- 661 Supervision of Home Economics. Three hours. A.**
Prerequisite: Approval of instructor.
Principles and techniques of effective supervision of home economics at different educational levels, with emphasis on supervision of student teaching.
- 662 Philosophy of Home Economics Education. Three hours. A.**
Prerequisite: Approval of instructor.
Major ideas, trends, and past developments in home economics education and their influence and implications in the future directions of the field.
- 665 Seminar in Home Economics Education. One to three hours. A.**
Prerequisite: Approval of instructor.
Discussion of current topics and research relevant to home economics. May be repeated to a maximum of six hours.
- 667 Evaluation in Home Economics Education. Three hours. A.**
Prerequisite: Approval of instructor.
Theories and techniques of evaluation; construction and interpretation of devices used to measure progress and attainment in home economics.
- 668 Research in Home Economics Education. One to six hours. A.**
Prerequisite: Approval of instructor.
Independent research. May be repeated to a total of six hours.

IDH INTERIOR DESIGN AND HOUSING

- 521 Analytical Furniture Design. Three hours. A.**
Prerequisite: Approval of instructor.
Analysis of furniture design in terms of integration of function and style with structure; coordination of furniture style with interior architectural expression.
- 525 The Decorative Arts. Three hours. A.**
Prerequisite: Approval of instructor.
Furniture and accessories of the 18th, 19th, and 20th centuries with emphasis upon the influence of major designers and their interpreters, their stylistic characteristics, and technical habituations.
- 626 Experimental Design for Architectural Interiors. Three hours. A.**
Prerequisite: Approval of instructor.
Extension of design principles to craft components of environment, including contracting for individual products and coordination of elements in interiors for specified commercial and residential goals.

NFA NUTRITION, FOODS AND FOOD ADMINISTRATION

- 501 Human Nutrition. Three hours. I.**
Prerequisite: NFA 301.
Interrelations and functions of nutrients in normal nutrition; relation of nutrient requirements at the cellular level to dietary standards.

NFA NUTRITION, FOODS AND FOOD ADMINISTRATION

- 502 Therapeutic Nutrition. Three hours. II.**
Formerly HEC 506, Nutrition in Health and Disease.
Formerly HEC 406, Newer Knowledge of Nutrition.
Prerequisite: NFA 501.
Theory and application of deviations in normal dietary patterns in disease.
- 505 Maternal and Child Nutrition. Three hours. A.**
Formerly NFA 403.
Formerly HEC 410.
Prerequisite: NFA 404.
Nutrition of the mother and fetus during pregnancy, and of the child from infancy to school-age years. Field experience.
- 507 Adolescent Nutrition. Three hours. A.**
Prerequisite: NFA 404.
Nutritional needs, problems, dietary habits, and motivations of the adolescent and early adult years. Field experience.
- 509 Nutrition and Aging. Three hours. A.**
Prerequisite: NFA 404.
The theories of causes of aging; nutritional requirements, dietary intakes and effects of nutrition on the rate of biological aging. Field experience.
- 515 Seminar in Nutrition. One to three hours. II.**
Formerly HEC 413.
Prerequisites: NFA 501 and approval of instructor.
Reports and discussions of current problems and research in nutrition. May be repeated by graduate students to a maximum of six hours.
- 516 Special Problems in Nutrition. One to three hours. I, II, S.**
Prerequisite: NFA 501 and approval of instructor.
The student chooses a problem and works under the supervision of an instructor. May be repeated by graduate students to a maximum of six hours.
- 541 Food Service Organization and Management. Three hours. I.**
Formerly HEC 319.
Prerequisites: ACC 108, NFA 342.
Principles of organization and their application to various types of institutions; personnel management, financial and administrative problems.
- 542 Laboratory for Food Service Organization and Management. Two hours. I.**
Formerly HEC 318.
Prerequisite: Concurrent enrollment in NFA 541.
Supervised experience in planning, preparing and serving food in approved institutions.
- 555 Seminar in Food Administration. One to three hours. I.**
Formerly HEC 418, Seminar in Food Service Management.
Prerequisite: NFA 541.
Reports and discussions of topics relative to the area of food administration. May be repeated by graduate students to a maximum of six hours.
- 556 Special Problems in Food Administration. One to three hours. I, II, S.**
Prerequisite: NFA 541.
The student chooses a problem and works under the supervision of an instructor. May be repeated by graduate students to a maximum of six hours.

TCF TEXTILES, CLOTHING, AND FASHION**502 Textiles for Architectural Interiors. Three hours. A.**

Prerequisite: Approval of instructor.

Characteristics, properties, specifications, and uses of textiles for architectural interiors. Field trips.

508 Textile Testing and Evaluation. Five hours. I.

Formerly HEC 508.

Prerequisites: CHE 102; TCF 202.

Chemical and physical tests of fibers and fabrics including dye properties and finishes. Study of textile legislation and standardization. Individual problems and projects.

510 Socio-Psychological Factors of Apparel. Three hours. A.

Formerly HEC 510.

Prerequisite: TCF 320.

Social, cultural and psychological factors which influence personal satisfaction in the selection and use of apparel.

519 Special Problems in Textiles. One to three hours. I, II, S.

Formerly HEC 519.

Prerequisite: Approval of instructor.

The student selects a problem and works under the supervision of the instructor. May be repeated by graduate students to a maximum of six hours.

Industrial Education and Technology (IET)

CLYDE O. CRAFT, Chairman

Major work leading to satisfaction of requirements for the degrees of Master of Science in industrial education, Master of Science in industrial technology, and Specialist in Technology (industrial education) is offered by the Department. Satisfaction of requirements for the Master of Arts in Education Degree is possible through the cooperation of the Department with the College of Education and the Graduate School. **Admissions and professional education requirements for the Master of Arts in Education Degrees are detailed in the College of Education section of the Catalog.**

The Master of Science Degree in industrial education is available in three options:

Option I is primarily designed to meet the needs of experienced and prospective teachers of technical subjects in technical institutes, junior colleges, and similar institutions. By pursuing the program, the student has the opportunity for advanced graduate study in such technical areas as woods, metals, printing, electronics, and drafting. The program is the logical prerequisite for the student interested in the Specialist in Technology Degree.

Option II is primarily designed to meet the needs of experienced and prospective vocational industrial-technical teachers. By pursuing the program, the student broadens his professional and technical preparation.

Option III is designed to meet the needs of the experienced and prospective vocational education administrator. In addition to providing the student the opportunity for advanced study in the field of vocational administration, the program fulfills the graduate curriculum requirements specified for vocational administration certification in the State of Kentucky.

The Specialist in Technology Degree is designed for the experienced or

prospective technical teacher in technical institutes, junior colleges, four-year colleges, and other post-secondary institutions. This program, as a capstone to the Master of Science in industrial education or a similar program, provides opportunities for extending technical and professional preparation.

Special Program Requirements*

MASTER OF SCIENCE IN INDUSTRIAL EDUCATION — Option I and Option II

For Admission — Applicants are expected to present a major in industrial education at the undergraduate level and to provide evidence of acceptable professional and scholarly aptitude. An overall grade point average of 2.5 is normally expected.

For Admission to Candidacy — Satisfactory scores on the Graduate Record Examination Aptitude Tests are required. Attributes related to professional promise will be reviewed.

For Program — Individual plans of study will include work from four areas: I. Technical Education Core (six hours — IET 502, IET 633); II. Technical Specialty (nine hours — Selected electives from the technology of Printing, Woods, Electricity/Electronics, Metals, or Drafting); III. College Teaching (nine hours EHE 695, 696, 697) or Vocational-Technical Teaching (nine hours EDF 669 and two of the following courses: IET 561, 564, 661, 662, 663, 665); IV. Supporting Work (six hours — Technical Specialty II, Research, Field Study, or Related Option).

For Thesis — Students who expect to continue graduate study to completion of the Specialist in Technology program may complete the research requirement as part of the master's curriculum. The thesis is optional in the Master of Science program, however.

For Comprehensives — The candidate will have an opportunity to demonstrate professional growth through a written and/or oral examination covering the four program components during the term in which graduation is scheduled.

MASTER OF SCIENCE IN INDUSTRIAL EDUCATION — Option III

For Admission — Applicants must present a major in a vocational education subject at the undergraduate level, be eligible for certification as a vocational education teacher and provide evidence of acceptable professional and scholarly aptitude. An overall grade point average of 2.4 and at least two years of successful vocational education teaching experience is normally expected.

For Admission to Candidacy — Satisfactory scores on the Graduate Record Examination Aptitude Tests are required. Attributes related to professional promise will be reviewed.

For Program — Individual plans of study will include work from three areas: I. Technical Education Core (six hours — IET 502 and IET 633); II. Administrative Core (eighteen hours — IET 663, IET 661, EDF 669, EPG 622 and 6 hours to be elected from the following: IET 561 or EPY 616; IET 573, EAD 600 or EAD 601, EAD 611, EPY 652, EDF 650, and ESE 612); III. Supporting Work (six hours to be elected from a vocational education field other than the undergraduate preparation).

For Thesis — While the thesis is not required, students with special research

*Students must also meet the general requirements of the Graduate School

interests are encouraged to consider a thesis in lieu of the aforementioned six hours of supporting work.

For Comprehensives — The candidate will have an opportunity to demonstrate professional growth through a written and/or oral examination covering the three program components during the term in which graduation is scheduled.

MASTER OF SCIENCE IN INDUSTRIAL TECHNOLOGY

For Admission — Applicants are expected to present appropriate prerequisite preparation. In some instances, such work will consist of a major in industrial education with a specialization in technology. The program may have appeal to individuals with engineering backgrounds also. An overall grade point average of 2.5 is normally expected. Conditional admissions provisions exist.

For Admission to Candidacy — Satisfactory scores on the Graduate Record Examination are required. The Advisory Committee will appraise attributes related to professional and technical promise.

For Program — Individual plans of study will include work from four areas: I. Technical Education Core (six hours — IET 502, IET 633); II. Technical Specialty (nine hours — Selected electives from the technology or Printing, Woods, Electricity/Electronics, Metals, and/or Drafting); III. Supporting Discipline (nine hours — Selected electives from Business, Psychology, Mathematics, Statistics, Science, etc.); IV. Additional Supporting Work (six hours — Thesis, or research, or Technical Specialty II, or Second Supporting Area).

For Comprehensives — The candidate will have an opportunity to demonstrate professional growth through a written and/or oral examination covering the various program components during the term in which graduation is scheduled.

SPECIALIST IN TECHNOLOGY

For Admission — Applicants are normally expected to present one year of graduate preparation in the field of industrial education and to possess unusual professional and scholarly competence. An overall undergraduate grade point average of 2.5 is expected.

For Admission to Candidacy — Students should present a 3.3 grade point standing on graduate work attempted. A score on the combined aptitude tests of the Graduate Record Examination at a level above the 65th percentile, based on scores achieved by Eastern Kentucky University seniors within programs. Commitment to the program as evidenced by experience, interviews with the committee and letters of recommendation must be demonstrated.

For Comprehensives — The candidate will have the opportunity to demonstrate professional maturity through a written and/or oral examination covering program components during the term in which graduation is anticipated.

Course Descriptions

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

501 Special Problems in Industrial Education and Technology.

Three hours. I, II.

Formerly IED 501.

Formerly Special Problems in Industrial Education.

Formerly INT 501.

Formerly Special Problems in Industrial Technology.

A course for graduates and exceptional undergraduates involving independent study and research related to problems of a theoretical and/or practical nature.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 502 Industrial Materials and Processes. Three hours. A.**
Formerly IED/INT 502.
Characteristics, utilization and processing of industrial materials such as wood, metals, plastics, clay, glass, concrete, etc.; composition and working qualities; types, grades, availability, and suitability of materials for varying purposes; shaping, forming, cutting, and finishing processes; quality, prices and control of materials and products.
- 511 Advanced Technical Problems in Graphic Arts. Two to six hours. I, II.**
Formerly IED/INT 511.
Technical instruction in the graphic arts field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in graphic arts.
- 533 Workshop in Industrial Education and Technology. One to four hours. A.**
Formerly IED 533.
Formerly Workshop in Industrial Education.
Formerly INT 533.
Formerly Workshop in Industrial Technology
533a Design; 533b Graphic Arts; 533c Plastics; 533d Power Mechanics; 533e Electronics; 533f Woods, 533g Metals; 533h Crafts; 533i Professional Industrial Education; 533j Drafting; 533k Occupational Safety. (Maximum credit in any category is limited to four hours.)
- 541 Advanced Technical Problems in Woodworking. Two to six hours. I, II.**
Formerly IED/INT 541.
Technical instruction in the woodworking field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in woodworking.
- 551 Advanced Technical Problems in Electricity/Electronics. Two to six hours. I, II.**
Formerly IED/INT 551.
Technical instruction in the electricity-electronics field; recent developments, advanced technical and experimental problems, and preparation of technical reports in electricity-electronics.
- 561 Evaluation in Technical Education. Three hours. A.**
Formerly IED/INT 561.
Strategies and methods for evaluation in technical education; identification and analysis of context, input, process, and outcomes; preparation, use, and analysis of measuring instruments.
- 563 Planning of Technical Education Facilities. Three hours. A.**
Formerly IED 563. Two hours.
Principles and practices underlying the planning and designing of shops and laboratories for vocational, industrial, and technical education.
- 564 History and Philosophy of Industrial Education. Three hours. A.**
Formerly IED 564.
History of industrial education from its early beginning to the present; the contributions of leaders; movements in the development of industrial and vocational education, modern concepts of industrial education.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 571 Advanced Technical Problems in Power Mechanics. Two to six hours. I, II.**
Formerly IED/INT 571.
Technical instruction in the power mechanics field; recent developments; advanced technical and experimental problems, and preparation of technical reports in power mechanics.
- 581 Advanced Technical Problems in Metalworking. Two to six hours. I, II.**
Formerly IED/INT 581.
Technical instruction in the metalworking field; recent developments, advanced technical and experimental problems, and preparation of technical reports in metalworking.
- 591 Advanced Technical Problems in Drafting. Two to six hours. I, II.**
Formerly IED/INT 591.
Technical instruction in the drafting field, recent developments, advanced technical and experimental problems, and preparation of technical reports in drafting.
- 611a Advanced Technical Study in Printing Technology: Photography. Three hours. A.**
Formerly IED/INT 611a.
Advanced technical study, research and experimentation in photography; cameras and lenses, filters, films, enlarging, dodging, and finishing; color photography; darkroom techniques.
- 611b Advanced Technical Study in Printing Technology: Layout and Design. Three hours. A.**
Formerly IED/INT 611b.
Advanced technical study, research and experimentation in layout and design; concepts of graphic design related to newspapers, books, brochures, flyers, and posters; practical experience in design and layout of graphic presentations.
- 611c Advanced Technical Study in Printing Technology: Color Separation. Three hours. A.**
Formerly IED/INT 611c.
Advanced technical study, research and experimentation in color separation; copy preparation, camera techniques, developing, stripping, platemaking and press operations.
- 611d Advanced Technical Study in Printing Technology: Photo-Offset-Lithography. Three hours. A.**
Formerly IED/INT 611d.
Advanced technical study, research and experimentation in photo-offset-lithography; inks, fountain solutions, films, chemicals, type methods, layout, stripping, camera techniques and platemaking.
- 611e Advanced Technical Study in Printing Technology: Quality Control. Three hours. A.**
Formerly IED/INT 611e.
Advanced technical study, research and experimentation in printing quality control; plant layout, temperature, humidity, chemicals, papers, and photographic materials.
- 633 Creative Problem-Solving in Technical Fields. Three hours. A.**
Formerly IED/INT 633.
A review and analysis of basic and applied research in the development of creative behavior with emphasis on its application to industrial teaching and industrial problem-solving.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 641a Advanced Technical Study in Wood Technology: Structure and Characteristics. Three hours. A.**
Formerly IED/INT 641a.
Advanced technical study, research and experimentation in structure and characteristics of wood; species, chemical composition, botanical structure, physical characteristics, and identification techniques.
- 641b Advanced Technical Study in Wood Technology: Dimensional Stability. Three hours. A.**
Formerly IED/INT 641b.
Advanced technical study, research and experimentation in dimensional stability of wood; moisture content effects and control, strength and density, seasoning, and drying defects.
- 641c Advanced Technical Study in Wood Technology: Veneer and Plywood Production. Three hours. A.**
Formerly IED/INT 641c.
Advanced technical study, research and experimentation in veneer and plywood production; veneer production and specifications; strength characteristics, specifications, grades, and uses of hardwood and softwood plywood; grading and production processes.
- 641d Advanced Technical Study in Wood Technology: Wood Substitutes. Three hours. A.**
Formerly IED/INT 641d.
Advanced technical study, research and experimentation in wood substitutes; composition and characteristics of hardwood, particle board and plastic laminates; materials specifications; principles of application to industrial use.
- 641e Advanced Technical Study in Wood Technology: Adhesives. Three hours. A.**
Formerly IED/INT 641e.
Advanced technical study, research and experimentation in wood adhesives, types, characteristics and application techniques of natural and synthetic adhesives; joinery and control factors; curing and comparative testing.
- 651a Advanced Technical Study in Electricity/Electronics Technology: Solid State Electronics. Three hours. A.**
Formerly IED/INT 651a.
Advanced technical study, research and experimentation in solid state electronics; amplifying devices, solid state and integrated circuit analysis and design.
- 651b Advanced Technical Study in Electricity/Electronics: Computer Electronics. Three hours. A.**
Formerly IED/INT 651b.
Advanced technical study, research and experimentation in computer electronics; digital systems, logic, component functions, memory systems, and control circuitry.
- 651c Advanced Technical Study in Electricity/Electronics: Communicative Systems. Three hours. A.**
Formerly IED/INT 651c.
Advanced technical study, research and experimentation in electronic communicative systems; signal analysis, transmission and modulation; intelligence and navigational transmission and reception; troubleshooting analysis and procedures.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 651d Advanced Technical Study in Electricity/Electronics: Microwave Electronics. Three hours. A.**
Formerly IED/INT 651d.
Advanced technical study, research and experimentation in microwave electronics; field phenomena; equipment components and characteristics, measurement techniques; communication systems.
- 651e Advanced Technical Study in Electricity/Electronics: Instrumentation. Three hours. A.**
Formerly IED/INT 651e.
Advanced technical study, research and experimentation in instrumentation; measurement concepts; industrial considerations; electrical and electronic instruments and applications; control and regulation systems.
- 661 Supervision in Technical Education. Three hours. A.**
Formerly IED 661.
Principles, objectives, methods, techniques, and practices of supervision; selection and organization of instructional materials; planning and equipping facilities; and professional and in-service education as they relate to the supervision of technical, vocational, and general industrial education programs.
- 662 Philosophy of the Practical Arts and Vocational Education. Three hours. II.**
Formerly IED 662.
Background, purpose and philosophies of the practical arts and vocational education; relationship to general education; effects of legislation for the practical arts and vocational education; the state plan.
- 663 Organization and Administration of Technical Education. Three hours. A.**
Formerly IED 663.
Organization of industrial education on the local, state, and national level; federal legislation in technical education; federal-state relationships; types of technical, vocational, and general industrial education programs and schools.
- 664 Special Problems in Industrial Education. One to six hours. A.**
Formerly IED 664.
Problems of particular value to the teacher in the field, both of a practical and of a research nature, will be pursued by the student and developed through conferences and activities directed by the staff.
- 665 Curriculum Practices and Trends in Industrial Education. Three hours. I.**
Formerly IED 665.
Current concepts and trends in industrial education; principles underlying curriculum construction and development; long range planning for improvement of programs.
- 666 Seminar in Industrial Education. Three hours. A.**
Formerly IED 666.
Current problems and issues in industrial education with emphasis on their historical, social, philosophical, and psychological dimensions. Study of recent research related to industrial education and its implications for the field.
- 667 Research in Industrial Technology. Three hours. A.**
Formerly INT 667.
Individual investigations in the field of industrial technology. Investigations may be conducted in the field or laboratory and under the supervision of the research advisor and other staff members. (May be repeated for a maximum of six hours.)

IET INDUSTRIAL EDUCATION AND TECHNOLOGY**681a Advanced Technical Study in Metals Technology:
Industrial Metrology. Three hours. A.**

Formerly IED/INT 681a.

Advanced technical study, research and experimentation in industrial metrology; precision measurement equipment and techniques; high amplification pneumatic, electronic, mechanical, and optical comparators; interferometry, radiography and monochromatic light techniques.

**681b Advanced Technical Study in Metals Technology: Tool Design.
Three hours. A.**

Formerly IED/INT 681b.

Advanced technical study, research and experimentation in tool design; design and fabrication of tooling jigs, fixtures and dies; modern metal forming production techniques; efficiency in machine utilization; heat treatment of metallic substances.

**681c Advanced Technical Study in Metals Technology: Materials Testing.
Three hours. A.**

Formerly IED/INT 681c.

Advanced technical study, research and experimentation in materials testing; non-destructive tests including Zyglo, Magniglo, dye penetrant, magniflux, X-ray, ultrasonic, nucleonic, and radiographic; destructive tests including tensile strength, compression, shear, torsion, and impact resistance; specimen preparation.

**681d Advanced Technical Study in Metals Technology:
Mechanical Power Transmission. Three hours. A.**

Formerly IED/INT 681d.

Advanced technical study, research and experimentation in mechanical power transmission devices; properties and design application of the involute curve; gear types; spherical and planetary application systems; design and fabrication of power transmission devices.

**681e Advanced Technical Study in Metals Technology:
Assembly Processes. Three hours. A.**

Formerly IED/INT 681e.

Advanced technical study, research and experimentation in metals assembly processes; adhesive bonding and seals; mechanical fasteners and components; brazing, soldering and welding techniques; pneumatic and hydraulic assembly applications.

**691a Advanced Technical Study in Drafting Technology:
Theory of Projection I. Three hours. A.**

Formerly IED/INT 691a.

Advanced technical study, research and experimentation in drafting projection theory; Mongean method and adaptations; positional change and theorems; force systems; Bow's notation; Pappus and Guldinus Theorem; four-dimensional descriptive geometry.

**691b Advanced Technical Study in Drafting Technology:
Theory of Projection II. Three hours. A.**

Formerly IED/INT 691b.

Continuation of IET 691a; axonometric, oblique, perspective, and stereographic projection; shades and shadows applied to pictorial representation.

- 691c Advanced Technical Study in Drafting Technology:
Advanced Illustration. Three hours. A.**
Formerly IED/INT 691c.
Advanced technical study, research and experimentation in industrial illustration; media; pencil, ink, Zip-a-tone, scratchboard, double and triple-tone board, coquille board, intaglio, airbrush, and planographic impression techniques; photo retouching; problems analysis; preparation of presentations.
- 691d Advanced Technical Study in Drafting Technology:
Drafting Reproduction Processes. Three hours. A.**
Formerly IED/INT 691d.
Advanced technical study, research and experimentation in drafting reproduction processes; exposure and development systems; dry and moist diazo, blueprint, Van Dyke, azograph, offset, microfilm, photostat, and reflex processes.
- 691e Advanced Technical Study in Drafting Technology:
Drafting Standards. Three hours. A.**
Formerly IED/INT 691e.
Advanced technical study, research and experimentation in drafting standards; study and comparison of ASA, military, SAF, AWS, and selected industrial standards; influences affecting standards; preparation of standards for a manufacturing or architectural establishment.
- 698 Thesis I. Three hours. A.**
Formerly IED/INT 698.
- 699 Thesis II. Three hours. A.**
Formerly IED/INT 699.

COLLEGE OF ARTS AND SCIENCES

F. D. OGDEN, Dean

GLENN O. CAREY, Associate Dean

Departments within the College of Arts and Sciences offer programs leading to the Master of Arts, Master of Science, Master of Music, Master of Music Education, and Master of Public Administration Degrees. The Departments of Anthropology, Sociology and Social Work, English, Foreign Languages, Geography, History, Political Science, and Psychology have programs leading to the Master of Arts Degree. The Departments of Biological Sciences, Chemistry, Geology, Mathematics, Physics, and Psychology (Clinical and School) offer programs leading to the Master of Science Degree. The degree, Master of Public Administration, is offered in the Department of Political Science. The Department of Music has a program leading to the Master of Music and the Master of Music Education degrees. Several departments, in cooperation with the College of Education, provide graduate study which enables the individual to obtain the Master of Arts in Education Degree with an emphasis in a specific discipline. These departments are Anthropology, Sociology and Social Work, Art, Biological Sciences, Chemistry, English, Foreign Languages, Geography, Geology, History, Mathematics, Music, Physics, and Political Science. These programs are described under the departments primarily responsible for them.

Courses offered for graduate credit by the departments in the College are listed below by department.

Anthropology, Sociology, and Social Work (ANT, SOC, and SWK)

RICHARD F. ARMSTRONG, Chairman

In cooperation with the Graduate School, the Department of Anthropology, Sociology, and Social Work offers work leading to the Master of Arts Degree in Sociology.

In collaboration with the College of Education and the Graduate School, the department offers the degree, Master of Arts in Education, with an emphasis in Sociology and in school social work. Details of program requirements may be found in the College of Education section of the **Graduate Catalog**. Courses comprising the social work component are enumerated below, identified by the prefix "SWK."

Special Program Requirements*

MASTER OF ARTS

The Department of Anthropology, Sociology and Social Work offers a Master of Arts Degree with emphasis in the following areas: urban and community development, demography, and social psychology. The objectives of this program are to increase the student's knowledge of theory, method and knowledge in sociology, to enable him to do reasonable research in the area and to increase understanding of the nature of social life.

For Admission — An undergraduate grade point overall standing of 2.75 is required with at least a 3.00 in the major area. Conditional admission provisions exist. Applications for admission are acceptable from students with undergraduate majors in the social sciences with appropriate background courses as determined by the department. Inadequate undergraduate background may require the taking of undergraduate courses.

For Admission to Candidacy — Prior to admission, a student shall have taken the Undergraduate Record Examination field test or the Graduate Record Examination advanced test in sociology and achieved a satisfactory score. Satisfactory performance on either the Undergraduate Record Examination or the Graduate Record Examination aptitude test is expected.

For Program — Each student must complete thirty semester hours, including SOC 630, 634, and 640. Six hours of this requirement must be met by SOC 698 and 699, which entail the completion of a satisfactory thesis.

Twenty-four hours of courses including thesis are to be successfully completed in sociology with not more than six hours to be taken in related areas. Students considering future teaching in community or junior colleges are encouraged to select six hours of electives from appropriate courses in higher education (ESE 690, 691, 695, 696, 697).

For Language and Statistics — A student must pass either a reading examination in a foreign language or a competence examination in statistics, as determined by his advisor. Ordinarily competence in statistics will be demonstrated by passing the final examination in SOC 630.

For Comprehensive — The satisfactory completion of a comprehensive examination of the course program is required. This written examination will be followed by an oral examination over the thesis content.

For Thesis — An acceptable thesis is required if a student selects the thesis master's program.

MASTER OF ARTS IN EDUCATION

The requirements for the Master of Arts in Education Degree are explained in the College of Education section of the **Catalog**. Candidates for the master's degree emphasizing sociology will have at least fifteen hours in sociology, which must include SOC 634 and 640. Other courses emphasizing the student's special interest will be selected in consultation with his sociology advisor. The Master of Arts in Education may be with or without the M.A. thesis. Six hours of course work will substitute for the thesis in the M.A. degree without thesis.

*Students must also meet the general requirements of the Graduate School.

Course Descriptions

ANT ANTHROPOLOGY

- 555 History of Anthropological Theory. Three hours. A.**
 Prerequisite: ANT 110, 201, and 202; or approval of instructor.
 Historical survey of the major theories and schools of thought in the area of scientific anthropology, including an appraisal of the various competing views on the current scene.
- 590 Tutorial in Anthropology. One to three hours. A.**
 Prerequisite: Nine hours in courses accepted toward major in anthropology, including ANT 201 and 202; or approval of department. May be repeated for maximum of six hours for undergraduate credit only. Individual reading and research on a problem or area within the field of anthropology by the student after consultation with the instructor.
- 600 Anthropology and Modern Life. Three hours. A.**
 Extensive review of the field of anthropology, with emphasis on implications of recent theoretical and factual developments for man in the modern world.
- 610 Anthropology and Education. Three hours. A.**
 Prerequisite: ANT 600 or an undergraduate background in anthropology.
 Cross-culture analysis of educational processes; growth, adaptation, and personality development of the child (enculturation and socialization), including the transmission of skills, knowledge, attitudes and values; the relationship of the educational process to social structure.

SOC SOCIOLOGY

- 520 Social Organization. Three hours. A.**
 Prerequisite: Approval of instructor.
 Analysis of various types of organizations in American society; internal and external processes and organizational structure.
- 565 Demography. Three hours. A.**
 Formerly SOC 465.
 Prerequisite: SOC 131, 237 and 395.
 Theories of population growth; factors affecting population size and composition such as mortality, fertility, morbidity, and migration; national population policies.
- 585 Sociology of Small Groups. Three hours. A.1**
 Prerequisite: SOC 131 or approval of instructor.
 Studies in the way people behave in small groups; emergence of leadership and coalitions; how changes in task requirements and rules influence the behavior of group members.
- 590 Directed Study. One to three hours. May be repeated for maximum of six hours for undergraduate credit only. A.**
 Prerequisite: Approval of department.
 Individual reading and research on a problem or area within the field of sociology after student consultation with the instructor.
- 620 Family. Three hours. A.**
 Prerequisite: Approval of instructor.
 Study of the institutions of marriage and family from their earliest forms to present-day patterns; analysis of various forces which affect family structure and functioning.

SOC SOCIOLOGY**625 Sociology of Minority Groups. Three hours. A.**

Prerequisite: Approval of instructor.

Examination of intergroup relations; sociological significance of race and ethnicity, including the dynamics of prejudice and discrimination; coping with intergroup tensions.

630 Advanced Research Methods. Three hours. A.

Prerequisite: Approval of instructor.

Experiment, model building, case study, and the survey. Each aspect of the basic approaches will be considered, with the student choosing one for his own research design.

SOC SOCIOLOGY**632 Modern Urbanization. Three hours. A.**

Prerequisite: Approval of instructor.

Deals with process of urbanization and impact of city life on social actions, social relationships and social institutions. Emphasis placed on rise and significance of cities in American life with special attention on modification of education, political and religious institutions, housing, transportation and communication.

634 Advanced Seminar in Sociology. Three hours. A.

Prerequisite: Approval of instructor.

Presents a systematic overview of sociology through an examination of its various sub-disciplines, with emphasis on the recent issues and important developments in each sub-discipline.

635 Social Gerontology. Three hours. A.

Prerequisite: Approval of instructor.

Analysis of the demographic, social and psychological aspects of aging with special emphasis on the rehabilitative and educational programs for the aged population of the United States.

640 Methods and Theory in Sociology. Three hours. A.

Prerequisite: Approval of instructor.

Modern theory in sociology and the way it is related to research studies, with an emphasis on new approaches in both method and theory.

642 Seminar in Population. Three hours. A.

Prerequisite: SOC 395 or approval of instructor.

Examination of the quantitative and qualitative aspects of population with a special emphasis on the consequences of population growth in underdeveloped and developed countries.

645 Community Development. Three hours. A.

Prerequisite: Approval of instructor.

Examines developmental efforts on community level in the United States; relates community development to community organization and examines current efforts, especially those based on the concept of self-help, to generate and implement community development programs.

652 Society and Personality. Three hours. A.

Prerequisite: Approval of instructor.

Inquiries into the relationship between society and the individual, and how each is influenced by the other with an emphasis on consensus, common experience and group as opposed to individual behavior.

680 Survey Design and Analysis. Three hours. A.

Prerequisite: Approval of department.

Systematic exploration of survey research problems with application of general methodological principles to the operating context of social surveys.

SOC SOCIOLOGY**698 Thesis. Three hours. A.****699 Thesis. Three hours. A.****SWK SOCIAL WORK****500 Problems and Issues in Social Work. Three hours. I, II.**

Prerequisite: Six hours in social work.

Discussion of current problems and issues in the fields of social work and social welfare.

502 Human Behavior and Social Environment. Three hours. A.

Growth processes and development within the family, group, and community; relationship of human behavior and social functioning to native endowment and cultural patterns.

505 Field Experience in Social Agency. Three or six hours. I, II.

Prerequisite: SWK 500.

Supervised experience in a social agency with emphasis upon interdependence between theory and practice.

607 Social Work and Social Services. Three hours. A.

Survey of the broad field of social welfare including its basic philosophy and objectives; attention given to community resources including eligibility requirements and benefits of programs of public and private agencies.

608 Interviewing and Casework in the School Setting. Three hours. A.

Examination of school social work as it relates to the total field, with emphasis upon casework with the child and his family, and interviewing of children and adults.

Art (ART)

DANIEL N. SHINDELBOWER, Chairman

The Art Department, in cooperation with the Graduate School and the College of Education, offers an emphasis in art applying toward the Master of Arts in Education Degree.

The regulations for the Master of Arts in Education Degree program may be found in the College of Education section of the **Graduate Catalog**. Students obtaining the M.A. Degree in Education with the emphasis in art may select the graduate courses for this purpose from the following:

Course Descriptions

ART ART**503 Independent Work in Painting. Three hours. A.**

Prerequisite: ART 403.

Emphasis is placed upon individual expression. May be repeated twice.

540 Workshop in Art. One to three hours. A.

Intensive study in a specific phase of the visual arts. Current processes, materials, and theoretical foundations will be considered. May be repeated for a total of nine hours.

ART ART

- 562 Seminar in Art Criticism. Three hours. I, II.**
Prerequisite: ART 390, 391.
Study of various topics and problems which relate to the student's understanding and critical awareness of the visual arts.
- 563 Problems in Art. Three hours. I, II.**
Prerequisite: All departmental courses in problem area identified. Limited to seniors and graduate students.
Continuation of study begun in regular departmental courses. May be repeated twice.
- 602 Art Program in the Public School. Three hours. A.**
Prerequisite: Six hours in art.
Analysis of the history of art education in the public schools coupled with a study related to planning and organization of contemporary art education programs.
- 621* Drawing. Three hours. A.**
- 622* Painting. Three hours. A.**
- 627* Sculpture. Three hours. A.**
- 629* Crafts, Clay. Three hours. A.**
- 630* Graphics. Three hours. A.**

*Courses in the series, ART 621 through Art 630, share the prerequisite of "six hours of work in the specialization named or consent of instructor." Students may register for no more than nine hours of any specialization offered.

Biological Sciences (BIO)

EDWIN A. HESS, Chairman

The Department of Biological Sciences offers several types of graduate degrees.

The Master of Arts in Education Degree is offered in cooperation with the College of Education. The degree is intended to broaden the scope of knowledge in the biological sciences and education at the advanced level.

The Department of Biological Sciences works in cooperation with the Departments of Physics, Chemistry, Geology, and the College of Education in the conduct of the Master of Arts in Education (with emphasis on general science). Information may be obtained from the Chairman, Department of Physics.

The prospective graduate student should obtain a copy of "Introduction in Graduate Programs in Biological Sciences" by contacting the Chairman, Department of Biological Sciences. This guide provides detailed information about the programs and the responsibilities of the graduate student.

Scholastic requirements of the Graduate School prevail for the non-degree registration in courses in the Department of Biological Sciences.

Special Program Requirements*

MASTER OF SCIENCE

For Admission — The following special requirements normally are necessary for admission to the Master of Science program in biology:

A 2.75 grade point average is generally preferred for all biological sciences attempted.

Completion of a satisfactory major in the biological sciences with appropriate supporting science.

Three letters of recommendation from professors or other professionals familiar with the student's scientific aptitude and development.

For Candidacy — In order to receive committee recommendation for admission to candidacy for the degree, the student must:

Complete, satisfactorily, the Advanced Test in Biology of the Graduate Record Examination.

Demonstrate aptitude for advanced study to a committee of biology faculty before 15 graduate semester hours have been completed.

For General Information

A minimum of 30 semester hours is required for the degree. The student is expected to complete coursework necessary to gain competency in the area of biological study selected.

An approved foreign language or the departmental option is required.

No more than six hours of coursework may be applied toward the degree requirements in which grades of "C" are earned.

For Comprehensives — Students will complete two examinations: covering the academic field of biology, and an oral examination covering the student's field of research and thesis.

MASTER OF ARTS IN EDUCATION

Students may elect to complete a research problem and thesis.

For Admission to Candidacy — The prospective candidate should demonstrate competency for graduate work in biology through satisfactory performance before a committee of the biological faculty.

For Comprehensives — All candidates must write a satisfactory examination in the biological sciences and complete an oral defense before a committee, comprised of graduate faculty of the Department of Biological Sciences and the Department of Secondary and Higher Education.

The candidate that elects to complete the thesis requirement will be required to defend the research in the oral examination.

*Students must also meet the general requirements of the Graduate School.

Course Descriptions

BIO BIOLOGICAL SCIENCES

510 Quantitative Biology. Three hours. A.

Prerequisite: Three hours of college mathematics or approval of instructor. Statistical analysis of biological data. Students participate in the taking of data and processing data by the use of well-established statistical techniques. Six laboratory — discussion hours.

514 Evolution. Three hours. A.

Prerequisite: BIO 315 or approval of instructor.

Processes of organic evolution with emphasis on the theory of natural selection. Three lecture hours.

BIO BIOLOGICAL SCIENCES

- 518 Parasitology. Three hours. I in even years.**
Formerly 318.
Prerequisite: BIO 211. -
Principles of parasitology, including basic morphology, classification, life, cycle and host-parasite relationships. Two lecture and two laboratory hours.
- 520 Pathogenic Bacteriology. Three hours. Even years, II.**
Prerequisites: BIO 221 or 273 or approval of instructor.
Course designed to acquaint the student with various advanced aspects of pathogenicity. The course contents will include: history of pathogenics, ecology, epidemiology, cultivation, bio-chemistry, physiology, and the clinical picture in the treatment of the major disease producing bacteria. Three lecture hours.
- 521 Advanced Plant Ecology. Three hours. A.**
Plant life in relation to natural habitats and environmental factors; emphasis on instrumentation and methodology for ecological studies. Two lecture hours and three laboratory hours.
- 522 Bacterial Physiology. Three hours. A.**
Prerequisites: BIO 221 and CHE 362 or approval of instructor.
Advanced study in microbial activity which includes composition of bacteria, growth, energy transaction and nutrition, and the effects of various chemicals and physical environments on bacteria. Two lecture hours and three laboratory hours.
- 523 Mycology. Three hours. II in even years.**
Morphology, physiology, taxonomy, and economic importance of fungi. Field trips are required. One lecture and four laboratory — discussion hours.
- 524 Phycology. Three hours. I in even years.**
Morphology, taxonomy, ecology, and the economic importance of algae. Two lecture hours and two laboratory hours.
- 526 Plant Pathology. Three hours. A.**
Prerequisite: BIO 328 or approval of the instructor.
Principles of plant pathology: significance and the nature of plant disease resistance, pathogenesis and control. Two lecture hours and two laboratory hours.
- 527 Immunology. Three hours. A.**
Prerequisite: BIO 221, CHE 261 or approval of instructor.
Principles of the immune reaction; nature of antigens, antibodies, antigen-antibody reaction, and allergic phenomena. Two lecture hours and three laboratory hours.
- 540 Cellular Physiology. Four hours. A.**
Prerequisite: BIO 348, CHE 361 and PHY 131.
Study of cellular and basic physiological mechanisms essential to life processes which include: cellular growth and environment; cellular organization and control of energy metabolism; energy utilization and transduction in specialized cells. Emphasis given to the regulatory mechanisms in homeostasis, with methodology and techniques typical in modern physiological research. Two lecture and four laboratory hours.
- 542 Natural History of Invertebrates. Three hours. I in even years.**
Collection, systematics, distribution, behavior, ecology, and life histories of terrestrial and freshwater invertebrates. One lecture hour and four laboratory hours.

BIO BIOLOGICAL SCIENCES

- 546 Histology. Three hours. I, II.**
Microscopic anatomy of the normal vertebrate cells, tissues and organs. One lecture and four laboratory hours.
- 547 Comparative Vertebrate Embryology. Four hours. II.**
Gametogenesis, fertilization, morphogenesis and organogenesis of the frog, bird and mammal. Particular emphasis is placed on mammalian development. Two lecture hours and four laboratory hours.
- 549 Endocrinology. Three hours. A.**
Prerequisite: BIO 348 and CHE 361.
Basic principles of the functions of endocrine glands with emphasis on the hormonal regulation of physiological processes of the body. Two lecture hours and two laboratory hours.
- 550 Animal Behavior. Four hours. A.**
Advanced study of behavior with emphasis on inherited behavior patterns in relation to the evolution and ecology of animals. Three lecture-discussion hours and two laboratory hours.
- 553 Mammology. Three hours. I in even years.**
Prerequisites: BIO 242 or approval of instructor.
Classification, distribution, and natural history of mammals in laboratory and field study. One lecture and four laboratory hours.
- 554 Ornithology. Three hours. II in even years.**
Avian biology with emphasis on field identification of local avifauna, anatomy, physiology, ecology, evolution, migration, economic importance, distribution and behavioral patterns. A special investigative study required for all graduate students. Some early morning field trips required. Two lecture hours and four laboratory hours per week.
- 556 Herpetology. Three hours. II in odd years.**
Natural history of the amphibians and reptiles including taxonomy, general ecology, behavior, distribution, breeding, and food habits. Two lecture hours and three laboratory hours.
- 557 Ichthyology. Three hours. II in even years.**
Prerequisite: BIO 242 or approval of instructor.
Internal and external morphology, taxonomy, life histories, ecology, and phylogeny of the fishes of North America. Six lecture-laboratory hours.
- 558 Limnology. Three hours. II in odd years.**
Ecology of lakes and streams with special reference to physical, chemical and biological factors of lotic and lentic environments. Comparative field investigations, methods and instruments of limnological field investigation of lakes and streams. One lecture hour and four field-laboratory-discussion hours.
- 561 Fisheries Biology. Four hours. A.**
Prerequisite: BIO 557 or approval of instructor.
Study of the anatomy, life histories, disease, conservation, methods of harvest, economic importance, and ecological interactions of fishes. Two lecture hours and six laboratory hours.
- 562 Fisheries Management. Four hours. A.**
Prerequisite: BIO 558, and 561 or 557.
Methods of fish-catching in the world, making and setting nets, construction of fish ponds, management of lakes, ponds and streams. The culture of game fishes, fisheries, statistics, and field experience. Two lecture and six laboratory hours.

BIO BIOLOGICAL SCIENCES

- 585 Regional Wildlife Ranges. Three hours. II in odd years.**
Prerequisite: BIO 382.
Distribution and management of game resources as determined by regional climate, physiographic, vegetative, and land-use factors. Three lecture hours. Two lectures and four laboratory hours.
- 587 Resident Wildlife Resources. Four hours. I.**
Prerequisite: BIO 382.
Taxonomy, life histories, distribution, environmental needs, economic status and plans for management of resident wildlife on forest, farm, and rangeland.
- 589 Migratory Wildlife Resources. Four hours. II.**
Prerequisite: BIO 382.
Taxonomy, life histories, distribution, environmental needs, economic status and plans for management of doves, waterfowl, and marsh birds. Two lecture hours and four laboratory hours.
- 597 Instrumentation and Biological Methodology. Two hours. A.**
Study of the principles by which biological instruments are designed and used. The application of appropriate measurement of biological change. Instruments and procedures, applicable to botany, zoology, genetics, physiology, microbiology and ecology will be studied. Four laboratory discussion hours.
- 598 Special Problems. One to three hours. A.**
Prerequisite: Senior or graduate standing and approval of chairman or thesis director.
Students may repeat the course for a maximum of four hours. A study of special problems, special biological techniques, or group of organisms. A minimum of three laboratory hours per credit hour. Course designed to expose graduate students to problems in biological research and study in various areas of specialization. May be repeated for a maximum of three hours credit.
- 599 Topics in the Biological Sciences. One to six hours. A.**
Prerequisite: Approval of instructor.
Presentation, discussion and application of principles to the solution of biological problems. May be repeated for maximum of six hours of credit. Permission must be obtained from the instructor and the departmental chairman prior to registration.
- 601 Scientific Literature of Biology. Two hours. I.**
Directed readings in biology designed to acquaint the student with the major sources of literature, the delimitation of problems, note taking and the making of bibliographies. Two lecture-discussion hours.
- 602 Select Topics in Biological Sciences. One to three hours. A.**
Advanced study of modern biological principles and the solution of interacting problems. The course will be designed to fit the needs of the students enrolled. May be repeated for a maximum of three hours credit.
- 612 Cytology and Cytogenetics. Four hours. A.**
Cytological basic structures, their function and their relationships to heredity mechanism in both plants and animals. Two lecture and four laboratory hours.
- 616 Biogeography. Three hours. A.**
Ecological, faunistic, and floristic distribution on a world-wide basis. Theory of distribution pathways as regards final distribution. Three lecture hours.

evidence of an applicant's ability will also be considered. Applicants offering a 3.0 grade point average for upper division work in chemistry may be considered providing they meet general requirements for admission to the Graduate School. Other applicants will be considered on an individual basis.

For Prerequisites—Applicants should have an undergraduate major in chemistry which includes the chemistry courses required for an accredited program by the American Chemical Society.

The following requirements must be completed prior to admission to graduate study: two semesters of introductory chemistry, one year of organic chemistry, and one years of physical chemistry.

Additionally, CHE 514, 525, and 565 must be included in the graduate program unless credit has been earned previously in the specific courses or their equivalents.

For Admission to Candidacy—The aptitude tests of the Graduate Record Examination and the Advanced Test in Chemistry must be taken during or prior to the first semester of graduate enrollment.

For Program—A minimum of 30 semester hours of graduate credit is required. The program shall include the following:

Core courses in advanced analytical (CHE 520), advanced organic (CHE 560), and advanced physical chemistry (CHE 670). Six elective credit hours in 600 level chemistry courses related to the student's area of research.

Two credit hours of graduate seminar.

A maximum of 6 credit hours of graduate research (CHE 695). Sufficient electives, approved by the graduate counselor, to reach the minimum of 30 credit hours. These credits should be from graduate level courses in chemistry, the related sciences or mathematics.

Language—An approved language is required.

Thesis—A thesis based upon the student's research program must be submitted. In addition to the copies required by the Graduate School, one bound copy should be prepared for the director of the student's graduate research program.

Comprehensives—A final oral examination in defense of the thesis and related course work is required.

MASTER OF ARTS IN EDUCATION

General requirements governing the degree, Master of Arts in Education, with an emphasis in chemistry are in the College of Education section of the **Graduate Catalog**.

For Prerequisites—Before beginning the program, the candidates should have taken one year of Organic Chemistry, equivalent to CHE 361 and 362. Also, one year of Physical Chemistry, equivalent to 471 and 472, should have been taken or the graduate program should begin with CHE 511 and 512.

For Program—The program of study for each candidate will be chosen, after consultation, to find his individual needs. The program shall contain at least 12 hours of course work in chemistry in addition to CHE 511 and 512, chosen from the department's 500 and 600 level offerings.

For Thesis—The thesis is optional in this program.

For Comprehensives—A written and/or oral examination will provide the student with the opportunity to demonstrate scientific and pedagogical growth essential to secondary teaching.

*Students must also meet the general requirements of the Graduate School.

Course Descriptions

CHE CHEMISTRY

- 511 Principles of Chemistry I. Three hours.**
This course will treat selected concepts in chemistry in depth. Topics to be covered are equation of state, thermodynamics and chemical equilibrium. Not available for credit if the student has taken CHE 471 and 472 or their equivalent. Three lecture hours.
- 512 Principles of Chemistry II. Three hours.**
Continuation of CHE 511. Topics to be considered are chemical kinetics, electrochemistry and other selected topics. Not available for credit if the student has taken CHE 471 and 472 or their equivalent. Three lecture hours.
- 514 Chemical Literature. One hour. A.**
Prerequisite: CHE 361; 472 or approval of instructor.
Introduction to the use of fundamental periodicals, abstract journals, handbooks, review series and encyclopedias of chemistry. One lecture hour.
- 520 Advanced Analytical Chemistry. Three hours. A.**
Prerequisite: CHE 362 and 472 or approval of instructor.
Advanced study of analytical methods usually classified as non-instrumental. Precipitation studies, aqueous and non-aqueous solvents, titrations, liquid-liquid extractions, chromatography, ion exchange, kinetics in analytical chemistry, sampling, statistics. Three lecture hours.
- 525 Instrumental Methods. Four hours. A.**
Prerequisite: CHE 362 and 472 or approval of instructor.
Principles and uses of optical and electrical instruments in analysis. Colorimetric, spectrophotometric (including infra-red), conductometric, potentiometric, polarographic and chromatographic methods and determinations, methods of nuclear chemistry. Two lecture and six laboratory hours.
- 530 Biochemistry I. Four hours. II.**
Prerequisites: CHE 362; 471 or approval of instructor.
Chemistry, metabolism and biosynthesis of carbohydrates, proteins, and lipids, the action of vitamins, hormones and enzymes related to cellular metabolism and body processes. Three lecture hours, three laboratory hours.
- 531 Biochemistry II. Four hours. A.**
Prerequisite: Chemistry 530.
Continuation of CHE 530. Topics included are nucleoproteins, energetics, biological catalysis, and functions of biologically important materials. Three lecture and three laboratory hours.
- 550 Inorganic Chemistry. Three hours. I.**
Prerequisite: CHE 472 or approval of instructor.
Modern concepts of atomic nuclei, atomic structure, and classification of elements. Completions and coordination compounds. Theories of bonding. Three lecture hours.
- 555 Inorganic Preparations. Three hours. II.**
Prerequisite: CHE 550 or approval of instructor.
Techniques of crystallization, distillation, furnace methods, electrolytic processes and gas handling as involved in the synthesis of alloys, oxides, salts, coordination compounds, polyacids, anomalous salts, and colloids. One lecture and six laboratory hours.

CHE CHEMISTRY

- 560 Advanced Organic Chemistry. Three hours. A.**
Prerequisite: CHE 362; 472 or approval of instructor.
Survey of new reactions and comprehensive study of reaction mechanisms. Three lecture hours.
- 565 Qualitative Organic Analysis. Three hours. A.**
Prerequisite: CHE 362 or approval of instructor.
Identification of unknown organic substances through a systematic study of their physical and chemical properties and their chemical derivatives. One lecture and six laboratory hours.
- 570 Physical Chemistry for Biological Sciences. Four hours. I.**
Prerequisite: CHE 325 or approval of instructor.
Recommended for premedical students and students in the biological sciences or related disciplines. Topics considered: states of matter, colligative properties of solutions, thermodynamics, equilibrium, electro-chemistry, colloids, and reaction kinetics. (Chemistry majors will take Chemistry 471 and 472.) Three lecture and three laboratory hours.
- 595 Introduction to Research. Three to five hours. I, II.**
Prerequisite: CHE 361; 471 or approval of instructor.
Objectives and techniques of chemical research. Problems in all fields of chemistry.
- 610 History of Chemistry. Three hours. A.**
Consideration of the role of chemistry in the history of man, the development of chemical concepts, and the contributions of famous chemists. Research will include inspection of various problem-solving philosophies of chemistry. Three lecture hours.
- 613 Principles of Chemistry III. Four hours. A.**
Development of the origin of chemistry concepts: atomic theory, chemical bonding, chemical interaction. The application of modern learning theories and psychological foundations with their implications for modern physical science curricula.
- 625 Spectroscopy. Three hours. A.**
Prerequisite: CHE 525 or 472.
Origin of spectra; arc and spark spectra; excitation energies; flame photometry; emission methods; the photographic process; Raman and atomic absorption methods; mass spectroscopy. Three lecture hours.
- 626 Electroanalytical Chemistry. Three hours. A.**
Prerequisite: CHE 525.
Study of the fundamental principles underlying potentiometric measurements and titrations, conductometric titrations, polarographic analysis, amperometric titrations, coulometric titrations, chronopotentiometry, and other electrochemical methods in analytical chemistry. Three lecture hours.
- 645 Chemical Laboratory and Demonstration Techniques. One to four hours. A.**
Prerequisite: Six semesters of undergraduate work in chemistry or approval of instructor.
Techniques of constructing and demonstrating apparatus to illustrate principles of chemistry. Primarily for high school and junior college science teachers. Variable credit is accomplished by allowing one credit hour for each three hours per week of laboratory work.

CHE CHEMISTRY

- 652 Chemistry of Transition Elements. Three hours. A.**
Prerequisite: CHE 550.
Detailed treatment of the chemistry of transition elements, the lanthanides and actinides, including the structure of coordination complexes, bonding, reaction mechanisms. Three lecture hours.
- 653 Chemistry of Solutions. Three hours. A.**
Prerequisite: CHE 550.
Reactions and substances in aqueous and non-aqueous media. Three lecture hours.
- 660 Organic Synthetic Methods. Three hours. A.**
Prerequisite: CHE 560.
Modern synthetic methods with an emphasis upon mechanism. Topics will include oxidation, reduction, Diels-Alder reactions, 1,3-dipolar addition and synthesis using carbene and arylene intermediates. Three lecture hours.
- 662 Quantum Organic Chemistry. Three hours. A.**
Prerequisites: CHE 362 and 472 or approval of instructor.
The basic principles of molecular orbital theory and its application to organic chemistry. Three lecture hours.
- 664 Heterocyclic Compounds. Three hours. A.**
Structure, preparation and reactions of principal heterocyclic ring systems. Three lecture hours.
- 670 Advanced Physical Chemistry. Three hours. A.**
Prerequisite: CHE 472; MAT 453 recommended.
Introduction to quantum theory; simple quantum mechanical systems; energy levels and statistical mechanics; atomic and molecular structure. Three lecture hours.
- 671 Chemical Kinetics. Three hours. A.**
Prerequisite: CHE 472.
Theory of rate processes; reaction order and molecularity; mechanisms of reaction. Three lecture hours.
- 673 Chemical Thermodynamics. Three hours. A.**
Prerequisite: CHE 472; MAT 453 recommended.
Variables and state functions, entropy, enthalpy, and free energy in ideal and non-ideal systems; activity and fugacity; partial molal quantities and chemical potential; thermodynamic properties from spectroscopic data. Three lecture hours.
- 680 Graduate Seminar. One hour. I, II.**
Presentation of significant developments in chemistry to members of the chemistry faculty and department majors. One weekly meeting. May be repeated for a maximum of two hours credit.
- 681 Seminar in the Teaching of Chemistry. One hour. A.**
Topics include the discussion of trends in chemistry teaching, application of research to chemistry teaching, and special problems that occur in schools. May be repeated for a maximum of two hours credit. One weekly meeting.
- 690 Graduate Literature Program. Three hours. I, II.**
Extensive survey of the literature related to a specific research program.
- 695 Graduate Research. One to six hours. I, II.**
Laboratory research in one of the major areas of chemistry for application to a thesis. May be repeated for a maximum of six credit hours.

Communications

JAMES S. HARRIS, Chairman

Course Descriptions

COM COMMUNICATIONS

500 Studies in Communications: _____.

One to nine hours. A.

Prerequisite: Approval of instructor.

Course designed for participants in workshops, short courses, institutes, or for presentation of a course of a timely, specialized, or topical nature. Specific course orientation will appear beside title.

510 Educational Communications. Three hours. A.

Prerequisite: Approval of instructor.

Designed to explore the facets of communications in the educational setting. Consideration of publications; electronic media and their impact; and the use of local media in the educational communications process. Methods of planning an educational communications program also will be developed.

JOU JOURNALISM

501 School Publications Supervision Conference. Two hours. A.

Prerequisite: Approval of instructor.

Two-week course of lectures and discussion by faculty and visiting lecturers. Each student will supervise secondary school students in the production of specimen school publications. May be repeated for a maximum of four hours.

RTV BROADCASTING

628 Instructional Television. Three hours. A.

Formerly ESE 628.

Exploration of television as a teaching tool. Theory and practice of planning the utilization of instructional television programs and courses. The roles of the producer/director, the television studio teacher, and the television classroom teacher are explored. History of educational television, television research, and literature in the field. Supervised critical viewing of course segments.

Drama and Speech

RICHARD L. BENSON, Chairman

Course Descriptions

DRA DRAMA

500 History of Theatre I. Three hours. I.

Intensive examination of development of theatre and drama from the Greeks to the Elizabethans.

501 History of Theatre II. Three hours. II.

Development of drama and theatre from the Elizabethans to the modern period.

DRA DRAMA

- 541 Special Problems in Play Direction. One to three hours. A.**
Prerequisites: DRA 341, 441.
Direction of a studio or major production under faculty guidance. Departmental permission required.
- 550 Play Production. Three hours. A.**
Non-specialized course dealing with the basic elements of play production; selection, casting, rehearsals, types of dramatic literature, styles of acting, elementary principles of set design and decoration, costuming, make-up, lighting, and house management. Primarily for prospective teachers who may direct dramatics. Open to speech and/or drama majors only with the consent of instructor.

SPE SPEECH

- 560 Speech Problems and the Teacher. Three hours. A.**
CL SED 560.
Designed to acquaint the classroom teacher with the basic types of speech defects, sources of referral, and his role and responsibilities.

English (ENG)

KELLY THURMAN, Chairman

The Department of English offers the Master of Arts in English; and, in cooperation with the College of Education, a Master of Arts in Education Degree with emphasis in English. The graduate student in English may prepare himself for a career of teaching on the college and pre-college levels and engage in literary research and composition on advanced levels.

Special Program Requirements*

MASTER OF ARTS DEGREE

The graduate program is designed to train the student in various areas of the discipline and provide him with both breadth and depth in English appropriate to the advanced level. Areas of study include English and American literature, comparative literature, the history and structure of the language, bibliography, creative writing, and literary criticism.

For Admission — Students must meet the general requirements of the Graduate School. In addition they should have completed an undergraduate major, or if they have not, be prepared to do additional hours to remove any deficiency in their undergraduate preparation. Ordinarily a 3.0 standing must have been achieved in upper division English courses taken.

To be eligible for the advanced degree, a student must achieve scores satisfactory to the Department in both the verbal Aptitude Test and the Advanced Literature Test of the Graduate Record Examination, or, in lieu of the latter requirement, the student must indicate special strengths which, in the judgment of the Department, are at least of equal importance to the achievement of satisfactory test scores on these examinations.

For Language — Students in either the thesis or non-thesis program must pass a language reading examination in a foreign language before the master's degree will be granted; however, the student may instead elect, unless he has already met the requirement, the completion of 12 hours (or the equivalent) of study in at least one language.

For Program Planning — Graduate work may be taken with or without a thesis. Under either option, work includes both preparation for independent study leading toward the Ph.D. in English and for teaching on the college and pre-college levels.

Students electing a thesis program may receive a maximum of six hours for ENG 698 and 699. Of the additional 24 hours required, at least 21 must be in English, and selected from the following groups so as to meet the minimal requirements indicated: One course from 539, 540, 541, 605, 625, unless previously taken; two courses from 521, 522, 525, 526, 626, 630, 631, 632, unless previously taken; one course from 523, 524, 627, 628, 672, 692 unless previously taken; one course from 546, 547, 550, unless previously taken; and one course from 645, 647, or 652, unless previously taken.

The **non-thesis** student must present course work selected from the following groups so as to meet the minimal requirements indicated: two courses from 539, 540, 541, 605, 625, unless previously taken; two courses from 521, 522, 525, 526, 626, 630, 631, 632, unless previously taken; one course from 523, 524, 627, 628, 672, 692, unless previously taken; one course from 546, 547, 550, unless previously taken; one course from 645, 647, 652; and at least one course from 601, 615, 686, or 690.

For Thesis — Those who submit a thesis in partial fulfillment of the Master of Arts Degree in English must prepare it in conformity with the regulations approved by the Graduate Council and the Department of English. Detailed information concerning the preparation and submission of the thesis may be procured in the office of the departmental chairman.

For Comprehensive Examination — Graduate students not electing a thesis are required to take a written comprehensive examination after the completion of 24 hours of course work, usually close to the end of the student's second semester of course work. Comprehensive examinations will be scheduled in November, April, and the fourth or fifth week of each summer session.

Graduate students electing to complete a thesis are required to give an oral defense of their thesis and to be examined orally on related course work. The oral examination will be scheduled approximately one month before the end of the student's final semester of graduate work for the degree.

MASTER OF ARTS IN EDUCATION DEGREE

The Department of English, in cooperation with the Graduate School and the College of Education, offers an emphasis in English applying toward the Master of Arts in Education Degree — Secondary Education. Students obtaining this degree should have a minimum total of 30 graduate hours, 10 of which should be in education and 20 of which should be in English. These courses should be chosen from the specialization patterns specified for non-thesis M.A. candidates above, with at least one course from each group.

*Student must also meet the general requirements of the Graduate School.

Course Descriptions

ENG ENGLISH

502 Creative Writing I. Three hours. I, A.

Prerequisite: GSE 101, 102, and two other English courses; approval of instructor.

Open to students who desire to have their manuscripts criticized; fiction, drama, poetry, biography, or the informal essay accepted; guest lectures by and discussion with writers-in-residence.

ENG ENGLISH

- 503 Creative Writing II. One to three hours. II, A.**
Prerequisite: GSE 101, 102; approval of instructor.
A continuation of ENG 502 but open also to students enrolling for a writer's conference, which is a one-week course of fifteen informal lectures and discussions by faculty and visiting lecturers. Each student registering for the writer's conference must submit a short story, a one-act play, four poems, or the equivalent.
- 521 Renaissance Literature. Three hours. I, A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Study of poetry and prose of the English Renaissance, with emphasis on Sidney, Spenser, and Bacon.
- 522 English Poetry and Prose of Seventeenth Century Exclusive of Milton. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Survey of poetry and prose of the first half of the 17th century, with emphasis on Donne, Jonson, Herbert, Crashaw, Browne, and Burton.
- 523 Milton and His Age. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Study of the most important works of Milton; attention to the historical setting and to Milton's contemporaries.
- 524 Chaucer. Three hours. II, A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Intensive reading of such works as *THE CANTERBURY TALES* and *TROILUS and CRISEYDE*; other readings as time permits.
- 525 Age of Dryden and Pope. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Poetry, prose, and drama of the Restoration Period with emphasis on Dryden; poetry of the Augustan period with emphasis on Pope.
- 526 Age of Johnson. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Poetry, prose, and drama of the later eighteenth century with emphasis on Johnson and Boswell.
- 534 Nineteenth-Century English Novel. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Study of the great 19th century English novelists from Jane Austen through Hardy; Austen, Scott, Dickens, the Brontes, Thackeray, Eliot, Meredith, Trollope, and Hardy.
- 539 Introduction to Linguistic Theory. Three hours. I, A.**
Prerequisite: GSE 101, 102, and at least six additional hours of English.
Detailed attention to the International Phonetic Alphabet, phonemics, and morphemics. Some attention to structural and transformational methods of analysis. Introduction to the study of dialect.
- 540 Applied Grammar and Linguistics. Three hours. II, A.**
Prerequisite: GSE 101, 102, and six additional hours.
Study of ways in which modern linguistic theory is put into practice. Emphasis on linguistic field work, comparison of languages, and investigation of English as a second language.
- 541 History of English Language. Three hours. A.**
Prerequisite: GSE 101, 102, and six additional hours.
Study of the history of the English language in terms of social, historical, and linguistic forces from which it developed into modern English.

ENG ENGLISH

- 546 Nineteenth-Century American Novel. Three hours. A.**
Prerequisite: GSE 101, 102 and six additional hours of English.
Survey of the American novel from its beginning to 1900.
- 547 Age of Emerson. Three hours. A.**
Prerequisite: GSE 101 (or equivalent), 102, and two courses in literature.
Intensive study of the prose and poetry of the American Renaissance; emphasis on the writings of Emerson, Thoreau, Hawthorne, and Melville.
- 550 Realism and Naturalism in American Literature. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Study of the rise and development of realistic and naturalistic writing in American literature.
- 560 Continental Fiction. Three hours. A.**
Prerequisite: GSE 101 (or equivalent), 102, and two courses in literature.
Extensive reading in translation of important fiction of the Western world; emphasis on selected novelists of the 19th and 20th centuries.
- 565 Greek and Roman Drama in Translation. Three hours. A.**
Prerequisite: GSE 101 (or equivalent), 102, and two courses in literature.
Brief study of dramatic criticism, theory of tragedy, and the Greek and Roman theater; reading of plays by Aeschylus, Sophocles, Euripides, Aristophanes, Plautus, and Seneca.
- 575 Poetry, Prose, Composition. Nine hours.**
Intensive analysis of poetry and prose; laboratory in composition; demonstrations of recent instructional media. Designed to prepare elementary and secondary teachers for more effective teaching.
- 601 Bibliography and Research. Three hours. A.**
Work in critical theory and practice with attention to bibliography and resources. Each student compiles an extensive bibliography on a subject or author of his or his instructor's choice.
- 605 Seminar in Linguistics. Three hours. A.**
Examination of various descriptive and comparative approaches to the study of language.
- 611 English Drama to 1642. Three hours. A.**
English drama from its beginning in the Middle Ages to the closing of the theaters in 1642, excluding Shakespeare.
- 615 Literary Criticism. Three hours. A.**
Study of the development of literary criticism from its beginning to the present.
- 625 Old English. Three hours. A.**
Reading and study of selected works in original Old English dialects.
- 626 Middle English Literature. Three hours. A.**
English literature from 1200 to 1500; emphasis on poetry; readings done primarily in the original dialect.
- 627 Seminar in Tudor Literature. Three hours. A.**
Studies in depth of two or more major poets or prose writers of the period.

ENG ENGLISH

- 628 Seminar in Donne and Jonson: Poetry and Prose. Three hours. A.**
Detailed study of the poetry of John Donne and Ben Jonson; some emphasis on 17th century prose.
- 630 Studies in Romantic Period. Three hours. A.**
Study in depth of selected major figures of the Romantic Period from the pre-romantics and Blake through Wordsworth, Coleridge, Byron, Shelley, and Keats.
- 631 Seminar in Nineteenth-Century English Prose. Three hours. A.**
Studies in depth of two or more major English prose writers (fiction or non-fiction) of the 19th century.
- 632 Seminar in Age of Tennyson and Browning. Three hours. I, A.**
Primary emphasis on the poetry of Tennyson and Browning; selected readings from other Victorian writers.
- 645 Seminar in Whitman and James. Three hours. A.**
Intensive study of the scholarly problems related to the poetry of Whitman and the fiction of James.
- 647 Seminar in Hawthorne and Melville. Three hours. A.**
Intensive study of the scholarly problems related to the fiction of Hawthorne and Melville.
- 652 Studies in Twentieth-Century American Literature. Three hours. A.**
Studies in depth of two or more major American writers of the 20th century.
- 655 Studies in Twentieth-Century British Literature. Three hours. A.**
Studies in depth of two or more major British writers of the 20th century.
- 660 Epic. Three hours. A.**
Study of the epic tradition; readings from Homer, Virgil, Dante, Milton, and others.
- 672 Seminar in Eighteenth-Century English Literature. Three hours. A.**
Studies in depth of two or more major figures of the Augustan Age.
- 686 Literary Theory. Three hours. A.**
Studies in the relationship of imaginative and non-imaginative literature; emphasis on philosophical approaches to English and American Literature.
- 690 Special Studies. One to three hours. A.**
Independent research and writing designed to fulfill the individual needs and interests of advanced students.
- 692 Seminar in Shakespeare. Three hours. A.**
Concentration on selected works of Shakespeare; investigation and research on scholarly problems.
- 698 Thesis I. Three hours. A.**
- 699 Thesis II. Three hours. A.**

Foreign Languages

CHARLES L. NELSON, Chairman

The Department of Foreign Languages, in cooperation with the Graduate School, offers graduate programs leading to the Master of Arts Degree. Emphases are available in the fields of French Language and Literature, and Spanish Language and Literature.

In cooperation with the Graduate School and the College of Education, the Department also offers programs in French and Spanish leading to the Master of Arts in Education Degree.

French (FRE)

Special Program Requirements*

MASTER OF ARTS DEGREE

For Admission — Applicants are normally expected to present an undergraduate academic standing of 2.75 (A = 4.0). At least 18 hours of prior work in the language, above the elementary level, or equivalent proficiency is expected. Provisions for eliminating deficiencies exist.

For Candidacy — Satisfactory performance on the Undergraduate or Graduate Record Examination, including the Advanced Test in French, is prerequisite to admission to candidacy for the degree. Students are encouraged to meet this requirement prior to enrollment.

For Program — The minimum program shall consist of not less than 21 hours of French. The student has the option of completing a minor of nine hours or of taking a 30 hour program in French.

All majors must take FRE 610. In addition, six semester hours of course work must be chosen from: FRE 505, 535, 540, and 550. Students may take a maximum of six hours credit in FRE 680.

Language Requirement — Students must pass a reading examination in a second foreign language determined in consultation with their advisor.

For Thesis — The thesis student must complete at least 12 hours of course work at the 600 level and may earn a maximum of three hours credit for FRE 698 and 699 respectively.

For Non-Thesis — The student who chooses not to write a thesis must complete at least 15 hours of course work at the 600 level.

For Comprehensives — All candidates for the degree must take a comprehensive examination, oral, written, or a combination, during the last term of residence.

MASTER OF ARTS IN EDUCATION DEGREE

For Prerequisites — A minimum of an 18 hour minor composed of courses above the elementary level. An undergraduate academic standing satisfactory to the Graduate School is required. A professional teaching certificate (in Kentucky, the provisional certificate) is a pre- or corequisite.

For Program — A minimum of 15 semester hours of French. Additionally, six semester hours of work must be completed from the following: FRE 505, FRE 535, FRE 540, and FRE 550.

Six semester hours may be elected from an allied area, subject to the approval of the advisor.

Suggested Arrangement of Program

First Semester: EDF 669, EDF elective, FRE 505, FRE or allied electives	12-15 hrs.
Second Semester: EDF electives, FRE 540, FRE 535, or allied elective(s)	13-15 hrs.

Because of the heavy load of course work for two semesters, a graduate student is encouraged to take at least six hours of the program during a summer session.

For Comprehensives — The student must perform acceptably on an examination covering program components.

*Students must also meet the general requirements of the Graduate School.

Course Descriptions

FRE FRENCH

- 505 Advanced Grammar and Composition. Three hours. I, II.**
Formerly FRE 405.
Prerequisite: FRE 202 or equivalent proficiency.
- 535 Introduction to French Linguistics. Three hours. I, II.**
Formerly FRE 399.
Applied linguistics for the prospective teacher of French.
- 540 Advanced French Conversation. Three hours. A.**
Prerequisite: FRE 340 or equivalent proficiency.
- 550 History of French Language. Three hours. A.**
Formerly FRE 650.
Prerequisite: Approval of department.
Survey of the evolution of the French language from its origins to the present day. Readings in Old French.
- 570 Sixteenth-Century French Literature. Three hours. A.**
Prerequisite: FRE 303 or equivalent proficiency.
Survey of the major works of the Renaissance with emphasis on those of Rabelais, Montaigne and Ronsard.
- 610 Bibliography and Research Methods. Three hours. A.**
- 620 Seminar in 17th Century French Literature. Three hours. A.**
May be repeated for a total of six hours, provided subject matter is different.
- 630 Seminar in 19th Century French Literature. Three hours. A.**
May be repeated for a total of six hours provided subject matter is different.
- 635 Seminar in 18th Century French Literature. Three hours. A.**
May be repeated for a total of six hours, provided subject matter is different.
- 640 Seminar in 20th Century French Literature. Three hours. A.**
May be repeated for a total of six hours, provided subject matter is different.
- 660 Seminar in Medieval French Literature. Three hours. A.**
May be repeated for a total of six hours, provided subject matter is different.
- 670 Seminar in 16th Century French Literature. Three hours. A.**
May be repeated for a total of six hours, provided subject matter is different.
- 680 Special Studies. One to three hours. A.**
Independent study in either language or literature on a subject of special need or interest to the advanced student. May be repeated for a maximum of six hours.

FRE FRENCH

681 Travel-Study Program in France. Three hours. A.
Prerequisite: Approval of department.
May be repeated for a total of six hours.

698 Thesis I. Three hours. A.

699 Thesis II. Three hours. A.

GER GERMAN

505 Advanced Grammar and Composition. Three hours. I, II.
Prerequisite: GER 202 or equivalent proficiency.
Required of all majors and minors.

511 Twentieth-Century German Novel. Three hours. A.
Prerequisite: GER 303 and GER 304 or equivalent proficiency.
In-depth study of one or more of the following novelists: Thomas Mann, Heinrich von Doderer, Robert Musil, Hermann Broch.

521 Age of Classicism. Three hours. A.
Survey of the Classical Period with emphasis on the classical works of Goethe and Schiller.

531 Survey of German Poetry. Three hours. A.
Designed to acquaint students with the characteristics of German prosody and to instruct them in the techniques of explication.

535 Applied German Linguistics. Three hours. A.
Prerequisite: Approval of department.
Historical and structural approach to German language and linguistics. Necessary for those who plan to teach the language.

540 Advanced Conversation. Three hours. II.
Prerequisite: GER 206 or equivalent.
Conversation course for seniors or graduate students who need practice in speaking and understanding German.

550 Brecht's Drama. Three hours. A.
Intensive study of works of one man to prepare students for advanced work and research on their own. Emphasis on Brecht's philosophical development as evidenced in his dramas.

555 Literature of Baroque Period. Three hours. A.
In-depth study of the drama and poetry of the period. Among authors included are: M. Opitz, A. Gryphius, D. V. Lohenstein, P. Fleming, P. Gerhardt, F. V. Logau, etc.

570 Romanticism. Three hours. A.
A study of its philosophical basis, its themes and forms. Included among the authors are Schlegel, Novalis, Tieck, etc.

590 Nineteenth Century German Drama and Prose, (Realism and Naturalism). Three hours. A.
Study of works of Buchner, Stifter, Hebbel, Keller, Meyer, Fontane, Hauptmann, Sudermann.

LAT LATIN

503 Latin Literature of Early Empire. Three hours. A.
Formerly LAT 403.
Prerequisite: LAT 302 or equivalent proficiency.
Selections from a connected and contemporaneous discussion of politics, education, literature, philosophy, social types, and town and country life.

LAT LATIN**504 Latin Literature of Late Republic. Three hours. A.**

Formerly LAT 404.

Prerequisite: LAT 302 or equivalent proficiency.

Selections from the works of Caesar, Sallust, Nepos, and Cicero, with emphasis on Ciceronian prose as a basis of much of the thinking and writing since his day; selections from works of poets of this age, with emphasis on the works of Catullus and Lucretius.

505 Roman Private Life. Three hours. A.

Formerly LAT 405.

Lectures, discussions, and readings on Roman family, home, marriage, education, clothing, food, amusements, travel, religion, town, and country life.

POR PORTUGUESE**501 Accelerated Elementary Portuguese I. Three hours. A.**

Prerequisite: Upper-division standing and 202 level or equivalent of another foreign language.

Fundamentals of the Portuguese language with emphasis on the peculiarities of Brazilian Portuguese.

502 Accelerated Elementary Portuguese II. Three hours. A.

Prerequisite: POR 501 or equivalent proficiency in Portuguese.

Composition, conversation, and readings in Brazilian studies in Portuguese.

Spanish (SPA)**Special Program Requirements*****MASTER OF ARTS DEGREE**

For Admission — Applicants are normally expected to present an undergraduate academic standing of 2.75 (A = 4.0). At least 18 hours of prior work in the language, above the elementary level, or equivalent proficiency is expected. Provisions for eliminating deficiencies exist.

For Candidacy — Satisfactory performance on the Undergraduate or Graduate Record Examination, including the Advanced Test in Spanish, is prerequisite to admission to candidacy for the degree. Students are encouraged to meet this requirement prior to enrollment.

For Program — The minimum program shall consist of not less than 21 hours of Spanish. The student has the option of completing a minor or nine hours in a related field or of taking a 30 hour program in Spanish.

All majors must take SPA 610, SPA 505, SPA 535. Students may take a maximum of six hours credit in SPA 680.

Language Requirement — Students must pass a reading examination in a second foreign language determined in consultation with their advisor.

For Thesis — The thesis student must complete at least 12 hours of course work at the 600 level and may earn a maximum of three hours credit for SPA 698 and 699 respectively.

For Non-Thesis — The student who chooses not to write a thesis must complete at least 15 hours of course work at the 600 level.

For Comprehensives — All candidates for the degree must take a comprehensive examination, oral, written, or a combination, during the last term of residence.

*Students must also meet the general requirements of the Graduate School.

MASTER OF ARTS IN EDUCATION DEGREE

For Prerequisites — A minimum of an 18 hour minor composed of courses above the elementary level. An undergraduate academic standing satisfactory to the Graduate School is required. A professional teaching certificate (in Kentucky, the provisional certificate) is a pre- or corequisite.

For Program — A minimum of 15 semester hours of Spanish. Six semester hours of work must be completed from the following: SPA 505, SPA 535, SPA 540, SPA 650. Six semester hours may be elected from an allied area, subject to the approval of the advisor.

SUGGESTED ARRANGEMENT OF THE PROGRAM

First Semester: EDF 669, SPA 535, EDF elective, SPA 505,
SPA or allied elective(s) 12-15 hrs.

Second Semester: EDF electives, SPA 540,
SPA or allied elective(s) 13-15 hrs.

Because of the heavy load of course work for two semesters, a graduate student is encouraged to take at least six hours of the program during a summer session.

For Comprehensives — The student must perform acceptably on an examination covering program components.

Course Descriptions**SPA SPANISH**

- 505 Advanced Composition. Three hours. A.**
Prerequisite: Senior status or graduate status.
- 507 Spanish Drama. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish Drama from the Middle Ages through the seventeenth century.
- 508 Spanish Drama. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish drama of the eighteenth, nineteenth and twentieth centuries.
- 509 Spanish Prose. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish prose from the Middle Ages through the eighteenth century.
- 510 Spanish Prose. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish prose of the nineteenth and twentieth centuries.
- 511 Spanish Poetry. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish poetry from its beginnings through the seventeenth century.
- 512 Spanish Poetry. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish poetry of the eighteenth, nineteenth and twentieth centuries.
- 535 Linguistics. Three hours. A.**
Prerequisite: SPA 303-304 or equivalent.
Introduction to linguistics for the Spanish major.

SPA SPANISH

- 540 Advanced Spanish Conversation. Three hours. A.**
Prerequisite: SPA 206 or equivalent (not open to native speakers).
- 610 Bibliography and Research Methods. Three hours. A.**
- 620 Medieval Spanish Literature. Three hours. A.**
- 625 Golden Age Prose. Three hours. A.**
Representative works and authors of the sixteenth and seventeenth centuries with an emphasis on Cervantes.
- 630 Golden Age Drama. Three hours. A.**
Representative works and authors of the sixteenth and seventeenth centuries with an emphasis on Lope, Tirso, Calderon, and Alarcon.
- 635 Nineteenth Century Prose. Three hours. A.**
Representative works and authors with an emphasis on the development of the realistic novel.
- 640 Generation of 1898 and Modernism. Three hours. A.**
Principal writers of Spain and Latin America from 1893 to 1920.
- 645 Contemporary Spanish Literature. Three hours. A.**
Representative figures since 1920 in the various literary genres.
- 650 History of the Spanish Language. Three hours. A.**
Evolution of the Spanish language from its origins to modern Spanish.
- 670 Seminar in Spanish Literature. Three hours. A.**
Special problems in Spanish Literature. May be repeated once for a total of six hours.
- 671 Seminar in Latin American Literature. Three hours. A.**
Special problems in Latin American literature. May be repeated once for a total of six hours.
- 680 Special Studies. One to three hours. A.**
Independent study in either language or literature on a subject of special need or interest to the advanced student. May be repeated for a maximum of six hours.
- 681 Travel-Study Program in Mexico. Three hours. A.**
Prerequisite: Approval of department.
May be repeated for a total of six hours.
- 698 Thesis I. Three hours. A.**
- 699 Thesis II. Three hours. A.**

Geography (GEO)

JOSEPH R. SCHWENDEMAN, JR., Chairman

The Department of Geography offers the Master of Arts Degree in geography and in cooperation with the College of Education, the Master of Arts in Education Degree with emphasis in Geography.

Special Program Requirements*

MASTER OF ARTS

For Admission — Applicants who possess grade point averages of 2.75 on all undergraduate work or, in certain instances, 3.0 for upper division work,

are eligible for admission. Provisions for conditional admission exist.

Geographic background will be evaluated from the perspective of the undergraduate program required at Eastern Kentucky University.

For Admission to Candidacy — Satisfactory scores on the aptitude tests of the Graduate Record Examination are required. A departmental examination covering the general field of geography is administered during the first semester in residence and any deficiencies reflected should be satisfied or incorporated into the plan of study prior to admission to candidacy for the degree.

*Students must also meet the general requirements of the Graduate School.

For Program — Both a thesis and non-thesis program are available. The following courses are required in both programs: GEO 553, 556, 650, 651, 653, and nine hours of seminar work in addition to GEO 651. The selection of seminars, in addition to other elective courses, will permit the graduate student to develop a program well aligned with his professional interests and/or professional opportunities. The major strength in this department is in Applied Geography, particularly in land use planning. The minimum length of the thesis program shall be 30 semester hours with an acceptable thesis required, or 36 semester hours if the candidate elects the non-thesis alternate plan. Courses in lieu of a thesis must be selected with the advice of the student's committee chairman. Provisions exist for an outside minor.

For Thesis — An acceptable thesis is required if a student selects the thesis master's program.

For Comprehensives — A final oral examination in defense of course work is required of all graduate students. Graduate students electing to write a thesis shall defend the thesis as part of those comprehensive examinations.

MASTER OF ARTS IN EDUCATION

General regulations governing requirements for the Master of Arts in Education Degree are contained in the College of Education section of the **Graduate Catalog**. Students seeking the degree with emphasis in geography should, with the assistance of an advisor, select courses from the offerings below. GEO 651 and nine hours of seminar work are required.

Course Descriptions

GEO GEOGRAPHY

500 Geography: _____ . One to nine hours. A.
Designed for undergraduate and graduate institute participants. Course content will be developed to adequately serve the aims of the Institute, and the specific orientation will appear in parenthesis behind the course title; that is, Earth Science, Regional, Education, etc. Designated semester hours which can be earned will also be specified for a given institute.

510 Advanced Physical Geography: _____ . Three hours. A.
Prerequisite: Approval of department.
In-depth study of the physical environment with emphasis on the spatial interaction between the physical and cultural environments. Special orientations may include; regional geomorphology, climatology and environmental impact studies. May be repeated for a maximum of six hours if subject matter is different each time.

GEO GEOGRAPHY

- 520 Advanced Cultural Geography: _____ Three hours. A.**
Prerequisite: Approval of department.
In-depth study of cultural-geographic themes with emphasis upon the spatial interaction of the physical and cultural environments. Special topics may include culture and technology, settlement, agriculture, and environmental perception. May be repeated for a maximum of six hours if subject matter is different each time.
- 530 Advanced Economic Geography: _____ Three hours. II.**
Prerequisite: GEO 330 and 331, or approval of department.
Distribution and characteristics of various kinds of economic systems, and cultural and physical bases accounting for economic differentiation. Included are origin, development, and transformation of systems, comparative advantages and techniques for independent analysis. May be repeated for a maximum of six hours if subject matter is different each time.
- 546 Regional Geography: _____ Three hours. A.**
Intensive study of a selected area of less than continental size offered upon demand and by an instructor who has done research in the selected region, or by a visiting lecturer. May be taken for a maximum of six hours if subject matter is different each time.
- 553 Quantitative Applications in Research. Three hours. I.**
Prerequisite: Approval of department.
Study of data type normally encountered in social and earth science research, valid sampling techniques in regard to development of this data, analysis of samples by appropriate statistical methods, testing for validity and significance, and conclusion drawing. Two hours lecture and two hours laboratory.
- 555 Advanced Cartography. Three hours. A.**
Prerequisite: GEO 355 or approval of department.
Advanced techniques of cartographic presentation of data and use of aerial photographs in map construction. One hour lecture and four hours laboratory.
- 556 Remote Sensing. Three hours. Summer Field Camp.**
Prerequisite: Approval of department.
Mechanics and limitations inherent to remote sensing imagery, and the interpretation and use of this data in geographic research.
- 600 Geography: _____ One to nine hours. A.**
A geography course designed for graduate institute participants. Course content will be developed to adequately serve the aims of the Institute. The specific orientation will appear in parentheses behind the course title, that is, Earth Science, Regional, Education, etc. The designated semester hours which can be earned will also be specified for a given institute.
- 610 Seminar in Physical Geography: _____ Three hours. A.**
Prerequisite: Approval of department.
Seminar in some aspect of physical geography dictated by student interest, faculty specialty, or current problems in the field. May be repeated for a maximum of six hours if subject matter is different each time.
- 620 Seminar in Cultural Geography: _____ Three hours. A.**
Prerequisite: Approval of department.
Discussion of cultural geography with emphasis upon current theory, research, trends, applications, or schools of cultural-geographic thought. Specific orientation will be determined by faculty specialty and student interest. May be repeated for a maximum of six hours if subject matter is different each time.

GEO GEOGRAPHY

- 621 Seminar in Planning: _____ Three hours. A.**
Prerequisite: Approval of department.
In-depth study of urban or regional planning, such as functional zoning of cities and underdeveloped areas. May be repeated for a maximum of six hours if subject matter is different each time.
- 630 Seminar in Economic Geography: _____ Three hours. A.**
Prerequisite: Approval of department.
Discussion of economic geography with emphasis on locational aspects of economic activities. Specific orientation will be determined by faculty specialty and student interest. May be repeated for a maximum of six hours if subject matter is different each time.
- 650 Field and Research Methods in Geography. Three hours.**
Summer Field Camp.
Detailed reconnaissance field work, including classification of natural and cultural features, interview procedures, preparation of geographical reports and maps based on field data. Library facilities and research are also included.
- 651 Seminar in History and Philosophy of Geography. Three hours. I.**
Prerequisite: Approval of department.
Discussion of the history and development of geographic thought, various schools of geography, philosophies in geography, current and future trends.
- 653 Theory and Models in Geography. Three hours. A.**
Prerequisite: Approval of department.
Survey and evaluation of current theories and models of geographic and planning significance, including the preparation of research designs having practical applications.
- 697 Special Studies in Geography. Three hours. I, II, S.**
Prerequisite: Approval of department.
Directed work in geography. Students must have topics selected and approved by the appropriate faculty member prior to enrollment.
- 698 Research. Three hours. I, II, S.**
Prerequisite: Approval of department.
Semi-directed research on selected topics. Students must have topics selected and approved by the appropriate faculty member prior to enrollment.
- 699 Thesis. Three hours. I, II, S.**
May be repeated for a maximum of six hours.

Geology (GLY)

DONALD C. HANEY, Chairman

The Department of Geology offers the Master of Science Degree in geology, and in cooperation with the College of Education, the Master of Arts in Education Degree with emphasis in earth science. The Master of Science Degree is offered in the areas of mineralogy and petrology, paleontology and stratigraphy, and structural geology. Emphasis is placed upon solution of field problems through the use of specialties in the above areas. The Department of Geology cooperates with the other science departments and the College of Education in offering the Master of Arts Degree in Education with emphasis in general science. This program is designed for the non-specialized science teacher and is described in the section on Secondary and Higher Education.

Special Program Requirements*

MASTER OF SCIENCE

For Admission — Applicants who possess grade point averages of 2.75 on all undergraduate work are eligible for admission. Applicants who have a 3.0 grade point average for upper division work in geology may be considered providing they meet general requirements for admission to the Graduate School. Provisions for conditional admission exist.

For Prerequisites — Students who have completed an undergraduate major in geology will be accepted into the program. Students from other sciences or mathematics will be admitted, but will be required to make up deficiencies in undergraduate geology.

For Candidacy — In order to receive recommendation for admission to candidacy, the student must:

Have satisfactorily completed the Advanced Test in Geology of the Graduate Record Examination or U.R.E.

Have satisfactorily passed a general examination in geology.

This examination will be given the first week of the semester.

Background deficiencies will require remedial study as indicated.

For Program — A minimum of 30 semester hours of graduate credit is required. The program shall include the following:

Core courses in igneous and metamorphic petrology (GLY 622), sedimentary petrology (GLY 623), advanced structural geology (GLY 510), and sedimentology (GLY 512). Three to six elective credits in 500 or 600 level geology courses related to each student's area of research. Four credit hours of graduate seminar (GLY 680). A maximum of six credit hours of graduate research (GLY 699). Course deficiencies in GLY 310, 311, 312, 410, 411, or 412 must be made up as part of the degree requirement. Sufficient electives, approved by the graduate advisor to reach the minimum of 30 credit hours; these credits should be from graduate level courses in geology, related sciences, or mathematics.**

For Thesis — A thesis based upon the student's research program is required.

For Comprehensive Examinations — A final oral examination in defense of the thesis and related course work is required.

MASTER OF ARTS IN EDUCATION

General requirements governing the Master of Arts in Education Degree with an emphasis in earth science are outlined in the College of Education section of the **Graduate Catalog**.

For Prerequisites — Candidates should have taken courses equivalent to GLY 310, 351, 411, and 414 as undergraduates. Deficiencies should be removed during initial enrollments.

For Program — Programs of study should include GLY 510, 511, 512, and 680. In addition, three to eight hours of graduate level courses in geology or related sciences.

For Thesis — The thesis is optional.

For Comprehensives — A written and/or oral examination is required to test the student's scientific and pedagogical ability essential to secondary teaching.

*Students must also meet the general requirements of the Graduate School.

**Geology field camp or equivalent is required as a component of either the undergraduate or graduate program.

Course Descriptions

GLY GEOLOGY

- 500 Geology: _____ One to nine hours. A.**
Designed for undergraduate and graduate institute participants. Course content will be developed to adequately serve the aims of the institute. The specific orientation will appear in parenthesis behind the course title, that is, Earth Science, Physical Geology, Educational Geology. Designated semester hours which can be earned will be specified for a given institute.
- 501 Physical Geology for Junior High School Teacher. Three or four hours. A.**
Fundamental composition and structure of the earth, rocks, minerals, landform origins and modifying agents. Designed for the junior high school teacher with special emphasis on laboratory techniques.
- 510 Advanced Structural Geology. Three hours. A.**
Prerequisite: GLY 410 or approval of department.
Advanced study of the architecture of the earth. Structures of mountains, regionally and world-wide, and mechanisms of deformation are considered in detail.
- 511 Advanced Paleontology. Three hours. A.**
Prerequisite: GLY 411 or approval of department.
Study of taxonomy, biostratigraphy, and paleocology of fossils. Emphasis placed on foraminifera, brachiopods, mollusks, ostracodes, and conodonts. Two lectures and two laboratory hours plus field trips.
- 512 Sedimentology. Three hours. A.**
Prerequisite: GLY 411 or approval of department.
Study of sediments. Physical condition of deposition, time of formation of deposits, and provenance emphasized. Size, shape, and composition of sediments analyzed statistically. Two lecture and two laboratory hours.
- 513 X-ray Diffraction and Spectroscopy. Three hours. A.**
Formerly GLY 313.
Prerequisite: PHY 131, 132, GLY 310, or approval of department.
Principles of X-ray Diffraction as a tool for analysis of crystalline substances. Special attention given to mineral identification, analysis of mineral structures, and elemental analysis by X-ray diffraction and emission.
- 530 Geophysical Exploration. Four hours. A.**
Formerly GLY 630.
Prerequisite: Approval of department.
Principles and techniques of gravimetric, seismic, magnetic, and other geophysical methods of exploration for petroleum and economic minerals. Three lecture and two laboratory hours.
- 532 Geology of Fuels. Four hours. A.**
Prerequisite: GLY 430.
Origin, occurrences, and uses of natural fuels. Three lecture and two laboratory hours, plus field trips as deemed appropriate.
- 533 Industrial Minerals. Four hours. A.**
Prerequisite: GLY 430.
Origin, occurrences, and uses of industrial rocks and minerals. Three lecture and two laboratory hours.

GLY GEOLOGY

- 560 Geochemistry. Four hours. A.**
Prerequisites: CHE 112 and GLY 310 or approval of department.
Principles of the distribution of the elements in the earth's crust. Phase equilibria pertinent to geologic problems. Major methods of geochemical analysis and exploration. Introduction to isotopes and their uses in geochronology. Three lectures and two laboratory hours.
- 570 Volcanology. Two hours. A.**
Prerequisite: Approval of instructor.
Analysis of extrusive and intrusive processes. Characteristics of lava flows, pyroclastic rocks, and volcanoes considered in detail. Two lecture hours.
- 600 Geology: _____. One to nine hours. A.**
Designed for graduate institute participants. Content will be developed to serve the aims of the institute. Specific orientation will appear in parenthesis behind the course title, that is, Earth Science, Physical Geology, Education Geology. Designated semester hours which can be earned will also be specified for a given institute.
- 601 Historical Geology for Junior High School Teacher. Three or four hours. A.**
Study of the geological history of the earth. Evolution of continents, mountain systems, and oceans, and the development of the earth's animals and plants. Designed for the junior high school teacher with special emphasis on laboratory techniques and field studies.
- 610 Geotectonics. Three hours. A.**
Prerequisite: Approval of department.
Topic selected by students and instructor in the area of structural geology.
- 612 Clay Mineralogy. Four hours. A.**
Prerequisite: GLY 313 or approval of department.
Structure, origin, occurrence, and use of clay minerals. X-ray diffraction techniques and differential thermal analysis will be used to identify clay minerals. Two lecture and four laboratory hours.
- 622 Igneous and Metamorphic Petrology. Four hours.**
Prerequisites: GLY 311 and 312.
Origin, occurrences and composition of igneous and metamorphic rocks. Emphasis on Precambrian batholiths and associated rocks. Three lecture and two laboratory hours.
- 623 Sedimentary Petrology. Four hours.**
Prerequisites: GLY 311 and 312.
Origin, occurrences, and composition of sedimentary rocks. Three lecture and two laboratory hours.
- 624 Carbonate Petrology. Four hours. A.**
Prerequisite: Approval of department.
Study of the composition, mode and environment of deposition and diagenetic history of carbonate rocks with an emphasis on microscopic interpretation. Two hours of lecture and four hours of laboratory.
- 680 Seminar: _____. One to four hours. A.**
Prerequisite: Approval of department.
Designed to fit specialized needs of individual students. May be taken in stratigraphy paleontology, mineralogy, petrology, geomorphology, or structural geology. May be repeated for a maximum of four hours.
- 698 Special Problems in Geology. One to six hours. I, II, S.**
Prerequisite: Approval of department.
Course topic to be determined by student and instructor. May be repeated for a total of six hours.
- 699 Thesis. Three to six hours.**

History (HIS)

GEORGE W. ROBINSON, Chairman

The Department of History offers the Master of Arts with a major in history; and, in cooperation with the College of Education the Master of Arts in Education Degree with an emphasis in history. Programs leading to these degrees prepare the student for careers in teaching on the college and secondary level,* advanced work toward a doctorate at other institutions and for a wide variety of public services within the United States.

Special Program Requirements*

MASTER OF ARTS IN HISTORY WITH THESIS

For Admission — Admission is determined by the Department of History in cooperation with the Graduate School. The following is required of each candidate:

Satisfactory performance on the Graduate Record Examination including the Advanced Test in History before or during the first summer or regular academic year the student is enrolled.

A high standard of undergraduate achievement, normally a 2.75 over-all average (on a 4.0 scale).

Completion of a satisfactory undergraduate major in history.

Two letters of recommendation from faculty members with whom the applicant has studied.

For Program Planning — Students may major in Twentieth Century American History, or Nineteenth Century English History, or Nineteenth Century Latin American History (Mexico). Minor fields may be chosen from the following: Modern European Intellectual History, American Social and Intellectual History, English History, Russian History, Far Eastern History, Latin American History, Political Science, Sociology, Anthropology and Geography.

Each candidate must complete 30 semester hours work including six hours of core requirements (HIS 601 and HIS 603), twelve hours in the major field, six hours in the minor field, and six hours credit for the thesis.

For Language Requirement — The student must pass a reading examination on historical literature in a modern foreign language, determined in consultation with his advisor.

For Thesis — Each candidate must submit a thesis which demonstrates an appropriate level of skill in historical research and writing. The thesis shall be submitted to the student's major professor at least thirty days in advance of graduation. Acceptance of the thesis shall be decided by a special reading committee. This committee shall be composed of the major professor and two other faculty members recommended by the chairman of the major department and appointed by the Dean of the Graduate School. The committee shall complete its review of the thesis at least one week prior to the final oral examination. Two bound copies of the accepted thesis, signed by the committee, must be deposited with the Dean of the Graduate School at least two weeks before

summer commencement and three weeks prior to the end of either the fall semester or spring commencement.

The thesis carries six semester hours of credit.

*The M.A. in History with and without thesis qualify the recipient for a provisional teaching certificate providing the candidate has already completed an undergraduate professional education program in history. In such a case the provisional certificate would have to be renewed every ten years with renewal requiring that the holder had taught at least three of ten years in question. A standard certificate not requiring renewal would be awarded to each M.A. in education (Secondary Education-History) graduate because of the nine hours of professional education included in the curriculum.

*Students must also meet the general requirements of the Graduate School.

For Comprehensive Examinations — The program will culminate in a written comprehensive examination designed to test the student's general knowledge of history, and an oral examination. The latter will concern only the candidate's mastery of his special field and his thesis topic. Passage of the language examination must be certified PRIOR to these examinations.

Suggested Arrangement of Graduate Work — A graduate student electing to major in American History should take the following:

First semester: HIS 603, 699, 607, U.S. History (elective),
minor elective 15 hrs.

Second Semester: HIS 601, 699, 607, U.S. History (elective),
minor elective 15 hrs.

A graduate student electing to major in English History should take the following:

First Semester: HIS 603, 699, English History (electives),
minor elective 15 hrs.

Second Semester: HIS 601, 699, English History (electives),
minor elective 15 hrs.

A graduate student electing to major in Latin American History should take the following:

First Semester: HIS 603, 699, 606 or 649, 582, minor elective 15 hrs.

Second Semester: HIS 601, 699, 585, 606 or 649, minor elective 15 hrs.

MASTER OF ARTS IN HISTORY WITHOUT THESIS

For Admission — Applicants must meet special admission conditions cited for majors electing thesis option.

For Program — Each candidate must complete 36 semester hours work including 12 hours of core requirements (HIS 601, 603, and six hours from HIS 604, 605, 606, 607). 15 hours in the major field and nine hours in a minor field.

Students may major in American, European, or Latin American history. The major and/or minor fields will be chosen from the following: American Social and Intellectual History, English History, Russian History (minor only), Latin American History, Twentieth Century U. S., Nineteenth Century U. S., Eighteenth Century U. S., Modern European History, and Far Eastern History, (minor only.)

All course work may be completed in residence at Eastern Kentucky University in no less than two regular academic semesters and one summer session.

Suggested Arrangement of Graduate work —

First Semester: HIS 603, 605 or 606, Major elective (600 level),
major elective, minor elective15 hrs.

Second Semester: HIS 601, 604 or 607, Minor elective (600 level),
major elective, minor elective15 hrs.

Summer Session: major elective, minor elective 6 hrs.

For Comprehensive Examinations — Upon completion of course work in the major field, the student's knowledge of the field will be tested by a comprehensive written examination. The program will culminate in an oral examination designed to test the student's general knowledge of history as well as his understanding of his special field.

There is no language proficiency requirement for the Master of Arts in History without thesis

MASTER OF ARTS IN EDUCATION (Secondary Education-History)

For Admission — Admission is determined by the Department of History in cooperation with the Graduate School and the College of Education. The following special qualifications are required of each candidate:

An overall undergraduate standing of at least 2.4 grade point ratio.

Completion of a satisfactory undergraduate major in history (at least 24 hours of courses in history).

Satisfactory performance on the Graduate Record Examination including the Advanced Test in History before or during the first semester of the regular academic year the student is enrolled.

For Program — Each candidate must complete 30 semester hours work including nine hours of core education courses, six hours of core history courses, nine hours in the major field and six hours in the minor field.

Students may major (nine hours) in either American history or European history. Students may minor (six hours) in one of the following: American History, European History, Political Science, Geography, Sociology, Anthropology. Students may select the six-hour core from HIS 601, 603, 604, 605, 606, 607

Suggested Arrangement of Graduate Work — A graduate student completing the M.A. in Education Secondary Education-History) in one academic year would be expected to complete the following program:

First Semester: EDF 669, EDF Elective, 600-level

HIS Elective, HIS major (elective), minor elective15 hrs.

Second Semester: EDF Elective, 600-level HIS

Elective, History major (elective), History

major (elective), minor (elective)15 hrs.

Because of the heavy load of course work for two semesters, a graduate student is encouraged to take at least six of the elective hours during a summer session.

Course Descriptions**HIS HISTORY**

502 American Revolution and the Constitution. Three hours. A.

Prerequisite: HIS 202.

Colonial background of Revolution; internal and external nature of Revolution; problems associated with Confederation; events leading to the American Constitution.

HIS HISTORY

- 503 Jacksonian Democracy. Three hours. A.**
Prerequisite: HIS 202.
Criticism of the concept. Party issues, nationalism, and the importance of the age.
- 507 Civil War and Reconstruction. Three hours. A.**
Prerequisite: HIS 202.
Causes, nature, and consequences of U. S. Civil War and Reconstruction.
- 508 Early Republic, 1789-1824. Three hours. A.**
Prerequisite: HIS 202.
Federalists; Republicans and the Constitution; America and the French Revolution; War of 1812; breakup of political parties; emergence of new political divisions.
- 509 Urban America. Three hours. A.**
Prerequisite: HIS 202 and 203.
Growth, development and implications of the city in American history.
- 511 Progressive Era and World War I, 1898-1920. Three hours. A.**
Prerequisite: HIS 203.
Progressive movement; imperialism; American entry into war; the Treaty of Versailles, League of Nations.
- 512 Prosperity, Depression, and War, 1920-1945. Three hours. A.**
Prerequisite: HIS 203.
Internationalism and isolationism; prosperity in the twenties; depression and efforts to cope with it; the coming of World War II; United States participation in war.
- 525 Twentieth Century Afro-American History. Three hours. A.**
Prerequisite: HIS 203 or approval of instructor.
In-depth study of the contributions of Afro-Americans and their struggles for the privileges and immunities of citizenship, interwoven with the experiences of the United States from world power to prober of outer space.
- 530 American Social and Intellectual History to 1850. Three hours. A.**
Prerequisite: HIS 202.
European influences; the colonial mind; revolutionary attitudes; New England's leadership; the movement of protest and reform; the rise of a native literature.
- 531 American Social and Intellectual History since 1850. Three hours. A.**
Prerequisite: HIS 203.
Civil War; Protestantism and capitalism; Social Darwinism; literature of naturalism and realism; the twentieth-century mind.
- 535 Ancient History in Near East and Greece. Three hours. A.**
Prerequisite: GSS 246.
Ancient Near East and Greece from prehistoric times to Alexander the Great and his successors; early food production; rise of civilization in Babylonia and Egypt; development of economic and political institutions; art; science; literature; and religion.
- 536 History of Rome. Three hours. A.**
Prerequisite: GSS 246.
Rome from prehistoric village to the dominant power in the Mediterranean world; rise and decline of the Empire in the West.

HIS HISTORY

- 542 French Revolution and Napoleon, 1789-1815. Three hours. A.**
Prerequisite: GSS 247.
Background analysis of various stages of the Revolution and their reflection of foreign policy; establishment of the First Empire; reasons for its collapse; effects of the Revolution upon France and Europe; 1815 as a watershed of European history.
- 544 Modern European Social and Cultural History. Three hours. A.**
Prerequisite: GSS 247.
European civilization in the 19th and 20th centuries; emphasis upon institutions, ideas, and cultural forms distinguishing the period.
- 549 Tudor-Stuart England, 1485-1688. Three hours. A.**
Formerly HIS 547 and HIS 548.
Resurgence of the monarchy; revolt against Rome. Protestant Reformation and Elizabeth I. Rise of Parliament. The early Stuarts; Anglicanism vs. Puritanism; Cromwell and the Restoration; Glorious Revolution.
- 550 Emergence of Victorian Britain. Three hours. A.**
Prerequisite: HIS 346 or approval of instructor.
Economic and intellectual backgrounds of 19th century; French Revolution and Napoleonic threat; reaction and reform after 1815; Victorian thought; origins of the Commonwealth; age of Palmerston in foreign affairs.
- 551 Britain and Empire in Adversity, 1867-Present. Three hours. A.**
Prerequisite: HIS 346 or approval of instructor.
Characteristics of a new era; Reform Bill of 1867; economic and intellectual trends in late 19th century; decline of liberalism in politics; revival of imperialism; coming of World War I; emergence of the Commonwealth; impact of World War II; Conservative-Labor contention; Britain's role in the "cold" war.
- 557 Germany since 1870. Three hours. A.**
Prerequisite: GSS 247.
Background; rise of Prussia; German nationalism and particularism; creation of the German Empire; its rule under Bismarck and William II; Peace Treaty and Weimar Republic; Nazi Germany; Second World War; allied occupation.
- 562 History of Soviet Union. Three hours. A.**
Prerequisite: GSS 247.
The 1917 revolution to the present. Establishment of the Soviet regime; New Economic Policy; Five-Year Plans; Soviet system of government; World War II; post-war years; cultural trends underlying political, economic, and social developments of the Soviet era.
- 564 History of Russian-American Relations. Three hours. A.**
Prerequisite: GSS 246, 247.
Origin of Russian-American relations during the Colonial Period. Development of commercial relations and beginning of Russian-American diplomacy of Imperial Russia. Evolution of Soviet-American relations during the 20th century.
- 572 History of Southeast Asia. Three hours. A.**
Prerequisite: GSS 246, 247.
History of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia, and the Philippines from the earliest time to the present. Special attention given to economic, social, and cultural change.

HIS HISTORY

- 573 Twentieth Century China. Three hours. A.**
Prerequisite: GSS 247.
Origins of communism in China; Revolution of 1911; Kuamintang; Mao Tse Tung; the Long March; World War II; Defeat of Chiang Kai-shek; Red China.
- 582 History of Mexico. Three hours. A.**
Prerequisite: GSS 246, 247.
Mexican History from the Spanish conquest to present with emphasis on Mexican Revolution of 1910 and its effect on political, economic, social, and military institutions.
- 585 History of Brazil. Three hours. A.**
Prerequisite: GSS 246, 247.
Examination of Brazil's history from 1500 to the present with emphasis on developments since 1930.
- 601 Survey of Historiography. Three hours. A.**
Seminar approach to the history of historical writings and interpretation. Attention to selected works of great historians from Herodotus to the present.
- 603 Historical Criticism. Three hours. A.**
Seminar in fundamental techniques of the historian; using basic bibliographical tools; locating and evaluating source materials; writing book reviews; critically interpreting historical evidence.
- 604 History as a Social Science. Three hours. A.**
Scientific approach to social problems and their historical interpretations; analysis of economic, social intellectual, and political backgrounds of contemporary civilization.
- 605 Humanities approach to History. Three hours. A.**
"American Character" and its development as an example of the humanities approach to the study of history.
- 606 Problems in Interpreting World History. Three hours. A.**
Seminar on selected controversial developments in world history. May be repeated for a maximum of nine hours credit providing the course content is different each time.
- 607 Problems in Interpreting American History. Three hours. A.**
Seminar on selected controversial developments in American history. May be repeated for a maximum of nine hours credit providing the course content is different each time.
- 649 Reading and Research. Three hours. A.**
Independent study in a specific field.
- 699 Thesis. Three hours. A.**
May be repeated once.

Mathematics (MAT)**BEN R. LANE, Chairman**

The Department of Mathematics offers the Master of Science in mathematics, and in cooperation with the College of Education, offers the Master of Arts in Education Degree with emphasis in mathematics. The Master of

Science Degree is designed to prepare the student for advanced graduate study in mathematics, for positions in government or industry and for teaching on the college and pre-college levels.

Special Program Requirements*

MASTER OF SCIENCE

Full admission to graduate standing includes an acceptable score on the GRE or URE and an undergraduate preparation in mathematics equivalent to that of a major in mathematics at Eastern Kentucky University.

Applicants who do not have this preparation may be admitted on probation and given such undergraduate courses as needed to strengthen their background.

For Program — A minimum of thirty semester hours of 500 and 600 level courses in mathematics. No more than six hours credit may be received for MAT 690. All students must complete MAT 515 and MAT 600. In addition one of the following two groupings must be completed:

Group 1: MAT 510, 550, 609

Group 2: MAT 545, 571, 670

For Admission to Candidacy — The student will be admitted to candidacy after successful completion of twelve hours of graduate work. Six of these hours must be on the 600 level.

For Thesis — The thesis is optional. Those students who elect to submit a thesis for partial fulfillment of the requirements of the Master of Science in mathematics must prepare it according to the regulations of the Graduate School and the Department of Mathematics.

For Comprehensive Examination — Each candidate near the end of his master's education must stand a written and/or oral examination covering the various components of his program.

*Students must also meet general requirements of the Graduate School.

MASTER OF ARTS IN EDUCATION

General regulations governing requirements for the Master of Arts in Education Degree are contained in the College of Education section of the **Graduate Catalog**. Students wishing the degree with emphasis in mathematics shall take a minimum of 12 hours of mathematics. Among these shall be at least one course from each of the following three groups (for a total of nine hours):

Group A: MAT 506, 600, 609

Group B: MAT 510, 515, 550, 610

Group C: MAT 505, 533, 571, 634

Additional course work will be planned in conference with a faculty advisor in the Department of Mathematics.

Course Descriptions

MAT MATHEMATICS

505 Foundations of Mathematics. Three hours. I.

Prerequisite: MAT 308 or approval of instructor.

Nature of mathematical thought; logical systems, postulational concepts and methods; consideration of the work of Hilbert, Peano, Whitehead, Russell, and others.

MAT MATHEMATICS

- 506 Number Theory. Three hours. II.**
Prerequisite: MAT 308 or approval of instructor.
Fundamental properties of integers; linear Diophantine equations; linear and quadratic congruences; famous problems of number theory.
- 510 Set Theory and Topology of Metric Spaces. Three hours. A.**
Formerly MAT 410.
Prerequisite: MAT 213 or approval of instructor.
Set theory, cardinality, the axiom of choice and its equivalents, structure of \mathbb{R} and \mathbb{R}^n , concept and properties of metric spaces.
- 515 Real Analysis. Three hours. A.**
Prerequisite: MAT 414.
Infinite sequences and series, power series, series of functions, convergence, Fourier series, introduction to the Lebesgue integral; allied topics.
- 533 Non-Euclidean Geometry and Related Topics. Three hours. II.**
Prerequisite: MAT 213 or approval of instructor.
Classical problem of parallelism and the developments which led to its solution. Synthetic and analytic treatment of hyperbolic geometry; its relation to space-time. The Cayley-Klein model and its generalizations. The Poincare model.
- 540 Introductory Applied Mathematics. Three hours. A.**
Prerequisite: MAT 453.
Techniques and applications of matrices and determinants, partial differential equations, Fourier series, Laplace transformation, calculus of variation, special functions, vectors and tensors, complex integration, linear transformations and inner product space.
- 545 Linear Programming and Theory of Games. Three hours. I.**
Prerequisites: MAT 214 and knowledge of computer programming.
Properties of convex sets. The linear programming problem and its dual. The simplex-algorithm. Finite and infinite games. The minimax problem. Applications to the transportation problem, the assignment problem, blending problems.
- 550 Complex Analysis. Three hours. II.**
Prerequisite: MAT 414 or approval of instructor.
Analytic functions and the Cauchy-Riemann equations. Linear fractional transformations and mappings of the elementary functions. Complex integration. Power series, residues and conformal mapping. Allied topics.
- 556 Functions of Several Variables. Three hours. A.**
Prerequisite: MAT 214 and 414 or approval of instructor.
Algebra and geometry of vectors; analysis of multivariable functions.
- 571 Introduction to Numerical Analysis. Three hours. II.**
Prerequisites: MAT 213 and 372 or equivalent.
Computer-oriented numerical methods course. Interpolation, numerical solution of equations, numerical integration, matrices and systems of equations, numerical solutions of ordinary differential equations. Exhibits techniques available; attempts to derive the relevant formulae and consider mathematical analysis.
- 600 Linear Algebra. Three hours. I.**
Formerly MAT 508.
Prerequisites: MAT 308 and 214.
Abstract vector spaces. Linear transformations. Matrix theory. Eigenvalues and eigenvectors. The spectral theorem.

MAT MATHEMATICS

- 609 Modern Algebra. Three hours. A.**
Prerequisite: MAT 308 or approval of instructor.
Study of groups, rings, fields, and modules. Category theory. An introduction to field theory.
- 610 General Topology. Three hours. II.**
Prerequisite: MAT 414 and 510 or approval of instructor.
Concept and basic structure of a topological space. Formation of new spaces, convergence, separation, countability and compactness.
- 611 Topics in Topology. Three hours. A.**
Prerequisite: MAT 610.
Continuation of MAT 610 including connectedness and an introduction to algebraic topology.
- 634 Higher Geometries. Three hours. A.**
Prerequisite: MAT 334 or approval of instructor.
Topics selection; projective geometry, affine geometry, non-Euclidean geometry and differential geometry. Mappings of a geometric nature and their properties considered.
- 650 Introduction to Functional Analysis. Three hours. A.**
Prerequisite: MAT 515.
Normed linear spaces, Banach spaces, Hahn-Banach theorem, open mapping theorem, closed graph theorem, dual spaces, Hilbert spaces, linear operators. Applications.
- 660 Topics in Algebra. Three hours. A.**
Prerequisite: MAT 609 or approval of instructor.
Topics to be selected from one or more of the following: Group theory, ring and/or module theory, field theory, number theory, category theory; the exact nature of the course will be determined by the instructor.
- 670 Advanced Probability and Mathematical Statistics I. Three hours. A.**
Formerly MAT 570.
Prerequisites: MAT 371 and 515.
Probability spaces, random variable, conditioning independence, distribution functions, laws of large numbers, central limit theorems, applications.
- 671 Advanced Probability and Mathematical Statistics II. Three hours. A.**
Prerequisite: MAT 670.
Study of the theory underlying applied statistics; estimation, inference, likelihood ratio tests, general linear hypothesis, decision theory.
- 672 Numerical Analysis. Three hours. A.**
Prerequisite: MAT 571.
Continuation of MAT 571 with increasing emphasis on theory. Polynomial approximations; Gaussian quadrature and related topics; differential equations; cubic spline.
- 680 Seminar in: _____ Three hours. A.**
Prerequisite: Approval of Department.
Topics covered may include advanced complex analysis, partial differential equations, advanced applied mathematics, stochastic processes, non-linear programming, computer theory. May be repeated to a maximum of nine hours, provided that the topics are different at each taking.
- 690 Independent Study. Three hours. A.**
Prerequisite: Graduate standing with a minimum of nine semester hours in 600 level mathematics courses.
Independent study on a problem chosen by the student and his instructor. May be repeated once.
- 699 Thesis. One to six hours. A.**

Music (MUS)

GEORGE E. MUNS, Chairman

The Department of Music offers major work which leads to (1) the Master of Music Education Degree, (2) the Master of Arts in Education Degree with emphasis in Music and (3) the Master of Music Degree, Specialization in Performance. Programs leading to Rank I certification are also offered. These graduate degrees prepare students for leadership roles in music education, and music performance at all levels: build a sound foundation for further graduate study leading to a doctorate; provide further insight into the structure of music; increase their knowledge of musical culture through intensive study of music literature; provide them with a core of knowledge from the fields of learning theory, philosophy of education and curriculum development, enabling them to use educational principles in guiding the musical growth of others.

Special Program Requirements*

MASTER OF MUSIC DEGREE

Specialization in Performance

For Admission — Applicants for admission must hold the degree of Bachelor of Music or its equivalent from an accredited institution. Normally, undergraduate records should reflect an overall grade-point average of 2.75, and the undergraduate programs must show adequate preparation in the field of specialization corresponding to the distribution of courses and credits usually found in departments certified by the National Association of Schools of Music. All candidates must be approved by an audition committee designated by the Chairman of the Department of Music. The audition will be augmented by at least three letters of reference from persons qualified to judge competent work in the areas of performance specialty.

For Program Planning — The general format of the program appears below. Additional details are available upon request to the Department of music.

Applied Music, Instrumental or Vocal	10 hours
Teaching Techniques, Performance Literature, Accompanying,	
Music Ensembles	4 hours
Required Courses (Theory, Literature, History or Musicology,	
Psychology of Music)	11-12 hours
Electives	4-5 hours
Graduate Recital	2 hours

For Comprehensive Examinations — The program will be culminated by a written or oral comprehensive examination testing the candidate's general knowledge of music.

MASTER OF MUSIC EDUCATION DEGREE

For Admission — Applicants for admission to the graduate music program must hold a valid teaching certificate and must hold the degree of Bachelor of Music, Bachelor of Music Education, Bachelor of Science in Music Education, or an equivalent degree from an accredited institution. Admission is based on evidence that the applicant will be able to pursue creditably a program of graduate study in music education.

*Student must also meet general requirements of the Graduate School.

Normally, undergraduate records should reflect an overall grade-point average of 2.75, and the undergraduate programs must show adequate preparation in the major fields and related fields, corresponding to the distribution of courses and credits usually found in departments certified by the National Association of Schools of Music.

Three letters of reference from persons qualified to judge competent work in the field of music or music education should be solicited by the candidate in support of his application. In addition, satisfactory performance on specific tests of musical knowledge and skills is a prerequisite.

For Program Planning — The general format of the program appears below. Additional details are available upon request to the Department of Music.

Music Education	10-16 hrs.
Teaching Techniques	0- 6 hrs.
Music History & Literature, Structure and Organization of Music, Applied Music, Related Fields	8-12 hrs.
Research & Thesis (with option of Recital)	5 hrs.
Education*	5-10 hrs.
Total: 32 hrs. for graduation	

*Five hours of education and four hours of music education will qualify the student for the Standard Teaching Certificate.

For Thesis — Each candidate must submit a thesis which demonstrates an appropriate level of research and writing in the field of music education. Candidates may choose to (1) conduct experimental, descriptive, historical, philosophical, or analytical research; (2) investigate a problem in music education in the schools; (3) write an original project such as a book for children and young people, a methods book, or some other creative endeavor; (4) complete a bibliographical project; (5) complete an extensive curriculum project for school use.

For Recital — A graduate level recital may be presented in lieu of thesis. A paper explaining in detail the music to be performed for the graduating recital will be prepared and submitted to the major professor at least two weeks prior to the recital date.

For Comprehensive Examinations — The program will be culminated by a written or oral comprehensive examination testing the candidate's general knowledge of music and education. In addition, those students electing to write a thesis will stand a final oral defense of thesis.

THE MASTER OF ARTS IN EDUCATION DEGREE

For Program Planning — The general format of the program appears below. Additional details are available upon request to the Department of Music. See also requirements outlined by the College of Education elsewhere in this catalogue.

Music Education	10-15 hrs.
Teaching Techniques	0- 6 hrs.
Music History and Literature, Structure and Organization of Music, Applied Music, Related Fields	8-12 hrs.
Education	9-12 hrs.

32 hrs.

Rank I Certification

For Guidelines — Students interested in Rank I certification should consult the guideline outlined by the College of Education.

For Suggested Program —

30 hrs.

Education

6 to 9 hours selected in consultation with advisor

Music and Music Education

9 to 16 hours selected in consultation with advisor

Electives

6 to 12 hours selected in consultation with advisor

For Options —

Emphasis on Music and Music Education

Program as outlined above. Electives may include courses from behavioral and social sciences, philosophy, humanities, and communications.

Combination of Music and Music Education with **Secondary Principalship** (open to persons holding a Master's Degree in Music Education)

1. Music and Music Education courses chosen with advisor13 hrs.

2. Secondary Principalship Requirements

EAD 600 Introduction to Educational Administration 3 hrs.

EAD 611 Supervision of Instruction 3 hrs.

EPY 616 Educational Measurements 3 hrs.

EAD 607 Secondary School Principal 3 hrs.

ESE 663 Secondary School Curriculum 3 hrs.

ESE 612 Curriculum Development 3 hrs.

18 hrs.

Master's Degree shall include:

EDF 615, EDF 636 or EDF 650, EDF 669 or Mus. 698, or their equivalents.

Combination of Music and Music Education with Supervision of Instruction (open to persons holding a Master's Degree in Music Education)

1. Music and Music Education courses chosen with advisor13 hrs.

2. Supervisor of Instruction Requirements

ELE 610 Elementary School Curriculum 3 hrs.

ESE 663 Secondary School Curriculum 3 hrs.

EAD 611 Supervision of Instruction 3 hrs.

EPY 616 Educational Measurements 3 hrs.

ESE 612 Curriculum Development 3 hrs.

An advanced reading course (ELE 673 is recommended) 3 hrs.

SED 615 Administration of Special Education 3 hrs.

20 hrs.

Master's Degree shall include:

EDF 615, EDF 636 or EDF 650, EDF 669 or Mus. 698, or their equivalents

Admission to Program

Persons admitted to joint programs must have the approval of both departments.

Advisement

Advising of persons in joint programs will be handled cooperatively by advisors in each department consulting frequently.

Course Descriptions

MUS MUSIC

- 513 Accompanying. One hour. A.**
Formerly MUS 613.
Practical training in the tradition, interpretation and execution of accompaniments. May be repeated for a maximum of two hours credit.
- 550 Teaching Techniques. One or two hours. A.**
Analysis of current teaching methods and materials with the intention of developing sound teaching procedures. May include observation and performance. Topics announced in woodwinds, brass, percussion, strings, voice, piano and organ. May be repeated for credit a maximum of two hours.
- 551 Performance Literature. One or two hours. A.**
Study and analysis of literature for various performing media relative to performance practices and problems. Topics announced in woodwinds, brass, percussion, strings, voice, piano and organ. May be repeated for credit a maximum of two hours.
- 555 Symphonic Music Literature. Three hours. I.**
Prerequisite: MUS 371 and 372.
Evolution of the symphony from its beginning to the 20th century, with emphasis on score reading and listening.
- 556 Choral Music Literature. Three hours. A.**
Formerly MUS 556 and 557.
Prerequisites: MUS 371 and 372.
Survey of choral music literature from the fifteenth century to the present.
- 563 Teaching Piano in Classes. Two hours. A.**
Prerequisite: Three years of piano study at the college level, or the equivalent. Methods and materials used in teaching of piano classes.
- 564 Advanced Instrumental Conducting. Two hours. A.**
Prerequisite: MUS 367 or equivalent.
Designed to increase skills in score reading, preparation, interpretation and conducting of representative orchestra or band works.
- 565 Advanced Choral Conducting. Two hours. A.**
Prerequisite: MUS 368 or equivalent.
Designed to increase skills in score reading, preparation, interpretation and conducting of representative choral works.
- 570 Band Pageantry. Two hours. A.**
Prerequisite: Approval of instructor.
Charting and scoring for the modern marching band.
- 572 Seminar in Music History. One to three hours. A.**
Formerly MUS 672.
Intensive study in a specific historical era, genre or composer. Topics to be announced. May be repeated for a maximum of six hours.
- 578 Music in Special Education. Three hours. A.**
Prerequisite for non-music majors: MUS 360 and ELE 362 or approval of instructor.
Deals with the place of music in the education of the emotionally, mentally, physically and socially handicapped, as well as the gifted. Music perception, self-concept, and behaviour modification will be developed within the perspective of special education. Special teaching techniques and resources will be explored and developed.

MUS MUSIC

- 581 Counterpoint. Three hours. A.**
Formerly MUS 581-582.
Analysis of model and tonal contrapuntal styles. Writing in two, three and four parts first in the vocal idioms of the late Renaissance, culminating in the instrumental polyphony of the Baroque era.
- 583 Composition. Two hours. A.**
May be repeated.
- 584 Fundamentals of Electronic Music I. Two hours. A.**
Mechanics of the synthesizer. Emphasis on "sound possibilities" and their actual production.
- 585 Fundamentals of Electronic Music II. Two hours. A.**
Prerequisite MUS 584 or approval of instructor.
Composition through the use of the synthesizer.
- 586 Workshop in Instrumental Music. Two or three hours. A.**
Topics in band or orchestral procedures.
- 587 Advanced Theory Survey. Three hours. A.**
Prerequisite: Approval of instructor.
Primarily intended for students in need of a thorough review in basic music theory. Intensive work in four-part writing, sight-singing, ear-training, keyboard harmony and analytical techniques.
- 605 Chamber Music. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 612 Piano. One to five hours. I, II.**
Prerequisite: MUS 412. Four years or equivalent, as demonstrated by the student's proficiency on piano. May be repeated for a maximum of ten hours credit.
- 622 Voice. One to five hours. I, II.**
Prerequisite: MUS 422. Four years or equivalent, as demonstrated by the student's proficiency in voice. May be repeated for a maximum of ten hours credit.
- 625 Choir. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 626 University Singers. One-half hour. I, II.**
- 627 Opera Workshop. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 632 String Instruments. One to five hours. I, II.**
Prerequisite: MUS 432. Four years or equivalent as demonstrated by the student's proficiency on string instruments. Graduate applied instruction in violin, viola, violoncello or string bass. May be repeated for a maximum of ten hours credit.
- 633 Special Problems in String Teaching. One to three hours. A.**
Specialized study of problems in studio or class teaching. Exposure to special techniques for successful teaching of skills at all levels.
- 635 Orchestra. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 642 Organ. One to five hours. I, II.**
Prerequisite: MUS 442. Four years or equivalent, as demonstrated by the student's proficiency on organ. May be repeated for a maximum of ten hours credit.

MUS MUSIC

- 645 Brass Instruments. One to five hours. I, II.**
Prerequisite: MUS 445. Four years or equivalent, as demonstrated by the student's proficiency on brass instruments. Graduate applied instruction in trumpet, French horn, baritone horn, trombone or tuba. May be repeated for a maximum of ten hours credit.
- 646 Woodwind Instruments. One to five hours. I, II.**
Prerequisite: MUS 446. Four years or equivalent, as demonstrated by the student's proficiency on woodwind instruments. Graduate applied instruction in flute, oboe, clarinet, bassoon, or saxophone. May be repeated for a maximum of ten hours credit.
- 647 Percussion. One to five hours. I, II.**
Prerequisite: MUS 447. Four years or equivalent, as demonstrated by the student's proficiency in percussion. May be repeated for a maximum of ten hours credit.
- 650 Small Ensembles. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 655 Band. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 674 Supervision & Administration in Music Education. Three hours. A.**
Functions, techniques and problems of supervision and administration in music education; development of effective programs in city and county school systems; in-service education and workshop techniques; professional and community relationships.
- 675 Current Trends in Secondary Music. Two hours. A.**
Formerly MUS 675 and 677.
Overview of the music curriculum in the junior and senior high school; relationship of the general and specialized aspects of music in secondary schools; characteristics of adolescents and their implications for musical growth.
- 676 Current Trends in Elementary Music. Two hours. A.**
Current thought and practices in elementary music; knowledge of the learner and the learning process, structure of music, and methods of developing skills related to a practical program of experiences designed to promote children's musical growth. Non music majors must have equivalent of MUS 360 and permission of instructor.
- 678 Principles of Music Education. Three hours. I.**
Presentation and discussion of basic educational principles and their implications for music education, with reference to all types of school situations.
- 679 Foundations of Music Education. Three hours. II.**
Formerly Field Work in Music Education.
Historical, philosophical and psychological foundations of music education and their relationship to curriculum development.
- 680 Problems in Music Education. One to three hours. I, II.**
Problems in the various areas of music education. Emphasis on curriculum improvement through exposure to current research and literature in the field. May be repeated for a maximum of three hours.
- 681 Workshop in Music Education. One to four hours. Summer Only.**
Philosophy, objectives, literature, materials, and techniques pertinent to a particular area, or areas, of music instruction. Topics to be announced. May be repeated for a maximum of four hours credit.

MUS MUSIC

- 683 Seminar in Choral Procedures. Two hours. A.**
Study of techniques and methods involved in preparation and performance of choral music, including emphasis on choral arranging for the various voice classifications. Includes a survey of junior and senior high school literature.
- 684 Organization & Administration of Instrumental Music. Two hours. A.**
History and roles of instrumental music; methods of program initiation, student recruitment and testing, organizational and administrative aspects of various instrumental groups; administrative procedures for property and library materials.
- 685 Psychology of Music. Three hours. A.**
Reactions to musical stimuli; consideration of musical aptitude and achievement; application of psychological theories to musical learning.
- 687 Analytical Techniques I. Three hours. A.**
An intensive study of the structure of Renaissance, Baroque and Early Classic music.
- 688 Analytical Techniques II. Three hours. A.**
Prerequisite: MUS 687 or approval of instructor.
An intensive study of the structure of Late Classic, Romantic and Modern music.
- 697 Graduate Recital. Two or three hours. A.**
- 698 Research in Music and Music Education. Two hours. A.**
Research techniques appropriate to music and music education; principles of research design; organization of the research report; analysis of representative research.
- 699 Thesis. Three hours. I, II.**

Philosophy (PHI)

JAMES R MILLER, Chairman

Course Descriptions

PHI PHILOSOPHY

- 510 Aesthetics. Three hours. A.**
Examination of the major philosophical theories of art and beauty and the place of aesthetic language in the general area of value judgments. Plato, Aristotle, Hume, Kant, Hegel, and several lesser figures critically considered.
- 520 Political Philosophy. Three hours. A.**
Inquiry into the major forms of social control through political institutions, and the use and meaning of key terms in the vocabulary of politics. Particular attention given to the relationship of law and morality and the reconciliation of political obligation and personal freedom.
- 530 Seminar in Philosophy. Three hours. A.**
Prerequisite: Approval of instructor.
Intensive examination of a general philosophical subject such as metaphysics, epistemology or axiology. May be repeated for a maximum of six hours credit providing the course content is different each time.

PHI PHILOSOPHY

550 Philosophy of Physical and Biological Sciences. Three hours. A. Formerly 450 and Philosophy of Science.

Prerequisite: Approval of instructor.

Examination of some basic concepts and presuppositions of the natural sciences. Hypotheses, theories and laws; reality-status of unobservable entities; conceptual models; induction and deduction in scientific method; impact of scientific revolutions; objectivity and value-neutrality; causality and indeterminism; reductionism and teleology.

560 Philosophy of Social and Behavioral Sciences. Three hours. A.

Prerequisite: Approval of instructor.

Examination of some basic concepts and presuppositions of the social and behavioral sciences. Theory construction and testability; hypothetical constructs and intervening variables; association and causation; mathematical and conceptual models; the place of value-judgments; behaviorism; statistics, induction, and deduction.

Physics (PHY)

TED M. GEORGE, Chairman

The Department of Physics offers the Master of Science Degree in Physics, and offers major work in support of the Master of Arts in Education Degree with emphasis in Physics in cooperation with the College of Education. The Department of Physics cooperates with the other science departments and the Department of Secondary and Higher Education in offering the Master of Arts in Education with emphasis in General Science. This program is primarily for non-specialized science teachers and is described in the section on Secondary and Higher Education.

Special Program Requirements*

MASTER OF SCIENCE

The Master of Science program prepares students for careers in industry, further graduate work, and/or community college teaching.

For Admission — Students must meet the general requirements of the graduate school. Students should have an undergraduate major or minor in physics and should have completed upper division undergraduate courses in modern physics, electricity and magnetism, and mechanics. Placement examinations will be given in these three areas during orientation week. Background deficiency in any area may require additional study without graduate credit.

For Degree Requirements — A minimum of 30 semester hours of graduate credit is required. Of these 30 hours, six hours may be taken in a supporting field and a maximum of six hours in research leading to a thesis. The thesis is optional with the student. A final oral examination related to course work taken and/or in defense of the thesis is required. There is no foreign language requirement. A well-prepared student may be able to complete this program in fifteen months.

MASTER OF ARTS IN EDUCATION DEGREE

The Physics Department, in cooperation with the Graduate School and the

*Students must also meet the general requirements of the Graduate School.

College of Education, offers an emphasis in physics applying toward the Master of Arts in Education Degree. This is a thirty-hour program providing graduate study in both physics and education for the secondary school teacher. Certification and at least an undergraduate minor in physics are required for admission. Other regulations for the Master of Arts in Education Degree program are found in the College of Education section of the **Graduate Catalog**.

Course Descriptions

PHY PHYSICS

- 502 Physical Optics. Three hours. A.**
Prerequisite: PHY 202 or approval of instructor.
Corequisite: MAT 112.
Wave motion, reflection and refraction, further study of lenses, the telescope, dispersion, facts concerning the spectrum, interference, diffraction, plane polarized light, the electromagnetic theory of light, the quantum theory, origin of spectra.
- 503 Thermodynamics. Three hours. A.**
Prerequisite: PHY 202.
Corequisite: MAT 213.
Study of temperature, thermodynamic systems, ideal gases. First and second law of thermodynamics, Carnot cycle, Kelvin temperature scale, entropy.
- 506 Physics for High School Teachers. Three hours. A.**
Prerequisite: One year of college physics and approval of instructor.
Topics from general physics to prepare teachers to teach high school physics with ease and confidence. Topics from advanced and modern physics to impart extra knowledge and a greater understanding. Two lecture hours; three hours laboratory and discussion.
- 510 Special Problems in Physics. One to six hours. A.**
Prerequisite: PHY 202.
Special laboratory experiments, development of new equipment, or solution of special mathematical problems related to physics. May be repeated for a maximum of six hours.
- 516 Electricity and Magnetism I. Three hours. A.**
Prerequisite: PHY 202.
Corequisite: MAT 453.
D.C. and A.C. circuit analysis. Steady state solutions for D.C. networks, transient and steady state solutions for series circuits, complex vector solutions for A.C. networks. Brief introduction to theory of electrostatic fields.
- 517 Electricity and Magnetism II. Three hours. A.**
Prerequisite: PHY 516.
Continuation of PHY 516. Covers electrostatic problems, dielectrics, magnetic field, magnetic properties of matter and Maxwell's equations.
- 558 Classical Mechanics I. Three hours. A.**
Prerequisite: PHY 202.
Corequisite: MAT 453.
Introduction by means of calculus to formulation and use of principles of classical mechanics. Covers force and motion of particles, work, Newton's Law of Gravitation, free and forced harmonic oscillations, translational and rotational motion of rigid bodies, wave motion.

PHY PHYSICS

- 559 Classical Mechanics II. Three hours. A.**
Prerequisite: PHY 558.
Continuation of PHY 558. Covers central forces, generalized coordinates, LaGrange's equations, Hamilton's equations, vibrating systems and normal coordinates.
- 570 Quantum Mechanics. Three hours. A.**
Prerequisite: PHY 558.
Basic principles of wave mechanics, solutions of Schrodinger wave equation for simple systems. Interpretation of solutions and application to atomic and molecular problems.
- 600 Physics for Elementary School Teachers. One to six hours. A.**
Prerequisite: Approval of instructor.
Topics from general physics selected to aid the elementary teacher to teach physical science with greater confidence. Application of modern learning theories and psychological foundations with their implications for modern science curricula. Variable credit in lecture and laboratory. May be taken for a maximum of six credit hours.
- 606 Selected Topics in Physics for Teachers. Three hours. A.**
Prerequisite: Approval of instructor.
Intensive study of topics in physics selected from the following fields: mechanics, thermodynamics, sound, electricity, magnetism, optics, and modern physics. Selection will depend upon the need of the students enrolled in the course. Two lecture hours; three hours laboratory and discussion.
- 608 Problems in Teaching of Secondary Physical Science. One to six hours. A.**
Study of problems in science relevant to secondary physical science. May be repeated for a maximum of six hours credit.
- 609 Inquiry Physics for Teachers. Three hours. A.**
For elementary teachers and physical science teachers. Topics in physics selected from the following: Mechanics, heat, sound, electricity, magnetism, and optics. Taught by an inquiry approach to prepare teachers to utilize discovery methods in their science teaching. Combined lecture-laboratory four hours per week.
- 610 Physics for Teachers of Physical Science. Three hours. A.**
Topics in physics selected from the following: Mechanics, heat, sound, electricity, magnetism, optics, modern physics, nuclear physics. Care will be taken not to duplicate subjects in PHY 609. Two hours lecture, two hours laboratory.
- 611 Demonstrations and Experiments for Physical Science Teaching. Three hours. A.**
Prerequisite: PHY 609 or PHY 610 or approval of instructor.
Designed to give practical experience in selecting, preparing, and using equipment for class demonstrations and experiments. Emphasis is placed on inexpensive equipment for the teacher of physical science. Combined lecture-laboratory four hours per week.
- 615 Advanced Nuclear Physics. Three hours. A.**
Prerequisite: PHY 570.
General properties of the nucleus; two body scattering problems; nuclear forces; nuclear models; theory of nuclear reactions; theory of beta decay.
- 620 Semiconductor Physics. Three hours. A.**
Prerequisite: PHY 559, PHY 570.
Band theory of solids; excess carriers in semi-conductors; materials technology and the measurement of bulk properties; p-n junction rectifiers and transistors; semiconductor devices.

PHY PHYSICS

- 625 Electromagnetic Waves. Three hours. A.**
Prerequisite: PHY 517.
Applications of Maxwell's Equations. Topics included are Maxwell's Equations, plane electromagnetic waves in free space and in matter; reflection and refraction, wave guides, radiation of electromagnetic waves, and electromagnetic fields of a moving charge.
- 640 Electronics II. Four hours. A.**
Prerequisite: MAT 453, PHY 307.
Theory of solid state devices; rectifiers; amplifiers; oscillators; pulse and digital circuits. Three lecture hours and three laboratory hours.
- 660 Advanced Classical Mechanics. Three hours. A.**
Prerequisite: PHY 559.
LaGrange's equations; variational principles; the two body problem; rigid body mechanics; special relativity.
- 662 Statistical Mechanics. Three hours. A.**
Prerequisite: PHY 559, PHY 503.
Systematic derivation of thermodynamic formulas; Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics; ensemble theory; distribution functions and partition functions; fluctuations; applications to gases and solids.
- 671 Intermediate Quantum Mechanics. Three hours. A.**
Prerequisite: PHY 570.
Schrodinger wave equations; eigenfunctions and eigenvalues; energy levels; collision theory.
- 680 Special Topics in Physics. One to three hours. A.**
Specially assigned theoretical or experimental work on premises not covered in other courses.
- 681 Selected Topics. One to three hours. A.**
Prerequisite: Approval of instructor.
Certain topics not normally presented that may be of interest to groups of certain students will be presented. Topics may include: nuclear physics; relativity; semi-conductors; angular momentum; atomic physics; electricity; acoustics. May be repeated for a maximum of three hours credit.
- 690 Thesis Research. One to six hours.**
Prerequisite: Approval of thesis-research advisor.
Research in physics followed by the preparation of a thesis under the guidance of the research advisor. May be repeated but a maximum of six hours may be applied toward a degree.

Political Science (POL)

ARTHUR Y. LLOYD, Acting Chairman

The Department of Political Science, in cooperation with the Graduate School, offers work leading toward the degrees, Master of Arts, Master of Public Administration, and, with the College of Education, the Master of Arts in Education.

Special Program Requirements*

MASTER OF ARTS

The Department of Political Science offers a Master of Arts Degree with emphasis in the following fields: international relations, comparative government, public law, American political process, political theory, and public administration. Objectives of the program are to establish and maintain standards of scholarly excellence; improvement of political institutions in community, Commonwealth and nation; preparation for effective participation in the political process; attainment of a degree of sophistication in the use of general concepts in the discipline; appreciation of the relationships between political science and other disciplines; and development of a specialized creativity in an area of the discipline.

For Admission — A high standard of undergraduate achievement is expected, normally 2.75 overall average (on 4.0 scale), and the completion of an acceptable undergraduate major (12 semester hours of political science is required for unconditional admission). Two letters of recommendation are required before action can be completed on an application for admission. It is strongly recommended the Graduate Record Examination aptitude test scores be submitted upon application for admission.

For Admission to Candidacy — Upon satisfactory completion of nine semester hours of graduate credit and submission of satisfactory Graduate Record Examination aptitude test scores, the student may apply for admission to candidacy.

For Program — Each student must complete 30 semester hours including POL 600. Students will elect to emphasize international relations, comparative government and politics, public law, American political processes, political theory, or public administration. Course work in addition to POL 600 will be determined in consultation between the student and his advisory committee.

For Language or Statistics — The student must show competence in a modern foreign language, mathematics, or statistics as determined by his advisory committee.

For Thesis — Students are expected to submit an acceptable thesis; an oral defense of the thesis is required. The thesis carries six hours of credit: POL 699.

For Comprehensive Examinations — A comprehensive written examination is required, the examination covers the field the student elects to emphasize and other material determined by the student's advisory committee.

MASTER OF PUBLIC ADMINISTRATION

It is not mandatory for students admitted to the M.P.A. program to have completed an undergraduate degree in political science. Rather, the chief considerations will be the student's aptitude for public service, and his capacity for thinking broadly. Therefore, undergraduate preparation will be equated with the student's breadth of experience and his aptitude for a career in administration.

*Students must also meet the general requirements of the Graduate School.

For Admission — A high standard of undergraduate achievement, normally 2.75 overall (on 4.0 scale) in a satisfactory major, satisfactory Graduate Record Examination aptitude test scores, and two letters of recommendation are necessary for unconditional admission. It is strongly recommended that scores for the aptitude portion of the Graduate Record Examination be submitted with the application for admission.

For Admission to Candidacy — A preliminary examination in two areas of public administration (finance, personnel, organization and methods, administrative law, administrative and organizational theory) is required. Students may be admitted to candidacy only after completion of at least 15 hours of their total programs. Students must also demonstrate competence in the use of statistical tools.

For Program — The minimal requirements for completion of the M.P.A. degree consist of 36 hours, competence in statistics, and completion of a supervised internship (POL 670); 12 hours from POL 565, POL 575, POL 576 and POL 577 are required. A student's program includes a minor consisting of 6-12 hours in an appropriate discipline approved by the student's advisory committee, which must also approve the individual courses in consultation with the graduate faculty member designated from the minor department.

For Internship — Internships are arranged for one semester with a government agency or an official of the Commonwealth or a local government. Written reports of the internships are submitted.

For Comprehensive Examination — Passage of an oral comprehensive examination will be required.

MASTER OF ARTS IN EDUCATION

The regulations for the Master of Arts in Education Degree program may be found in the College of Education section of the **Graduate Catalog**. Students choosing the M.A. in Education with the emphasis in political science select graduate courses from the following:

POL POLITICAL SCIENCE

- 500 Practicum in Political Science. One to three hours. A.**
Prerequisite: 12 hours of political science.
Supervised field study program available only to political science majors. Assignments made to the General Assembly of Kentucky or to officials of local government in accordance with the requirements of special projects. May be repeated for maximum of six hours undergraduate credit.
- 511 British Government and Commonwealth. Three hours. A.**
Formerly POL 501.
Study of constitutional system and political institutions of Great Britain and their transfer to diverse Commonwealth nations: e.g., India. Comparative study of historical, geographical, social and economic variables which affect the nature of the political system.
- 512 Government and Politics of China. Three hours. A.**
Formerly POL 506 and part of POL 505.
Analysis of political development, organizational structure and operation of Chinese political systems with particular emphasis on Chinese Communism, foreign policies and contemporary problems in China.

POL POLITICAL SCIENCE

- 513 Government and Politics of Japan and Korea. Three hours. A.**
Formerly POL 507 and part of POL 505.
Comparative analysis of political development, organizational structures and operation of political systems of Japan, and Korea with particular emphasis on interaction of the two countries with the United States.
- 517 Politics and Modernization. Three hours. A.**
Comparative study of politics in contemporary African, Asian, Latin America, and Middle Eastern societies to consider the relationship between political change and the broader social change called modernization.
- 518 Political Culture and Socialization. Three hours. A.**
Prerequisite: Three hours of political science, sociology, or psychology, or approval of instructor.
Processes, agents, and goals which affect the formation, expression, and impact of political behavior by citizens in the United States and other countries.
- 521 Contemporary International Relations. Three hours. A.**
Prerequisite: Six hours of political science or approval of instructor.
Systematic analysis of major contemporary theories and approaches to the study of international politics and foreign policy.
- 525 Workshop in International Affairs. Three hours. A.**
Formerly POL 515.
Explores major problems in international affairs. Covers various areas of the world with reference to significant background factors and international problems of the people. Designed for secondary teachers in the social science field although open to other qualified students. Offered only during summer session.
- 530 Problems in Metropolitan and Municipal Government and Politics. Three hours. A.**
Formerly called Municipal Government and Administration.
Prerequisite: POL 331 is recommended.
Examination and comparison of intergovernmental, social, fiscal and other economic problems and their impact upon metropolitan and municipal politics.
- 533 Workshop in Local Government and politics. Three hours. A.**
Formerly POL 520.
Focuses attention on major problem areas of Kentucky local government. Different areas of concern will be explored each time the course is offered.
- 541 Politics and Education. Three hours. A.**
Prerequisite: Approval of instructor.
Examination of political decision-making and public policy in the field of education including participants in school decision-making, educational interest groups, distribution of educational power across several levels of government, and impact of schools in the process of political socialization.
- 555 History of Political Theory I. Three hours. I.**
Survey of political thought from the time of Plato to the Reformation.
- 556 History of Political Theory II. Three hours. II.**
Survey of political thought from the sixteenth century to the present.

POL POLITICAL SCIENCE

- 565 Administrative Law. Three hours. A.**
Prerequisite: Graduate standing or approval of instructor.
Nature of the powers vested in administrative agencies; the problems of administrative procedure; and, the methods and extent of judicial control over administrative action.
- 570 Public Management Systems. Three hours. A.**
Formerly POL 680.
Prerequisite: POL 370 or graduate standing.
Examination and evaluation of methods and tools for analyzing operations and structures in public organizations: e.g., uses of and relationships among systems analysis, operations research, program and performance budgets, EDP as techniques available for governmental decision-making.
- 575 Governmental Organization and Administrative Theory. Three hours. A.**
Formerly POL 545.
Prerequisite: POL 370 or graduate standing.
Comparison of governmental organizations to other organizations within the society and analysis of the differences and their impact upon theories and practices of administration in public agencies.
- 576 Public Personnel Administration. Three hours. A.**
Formerly POL 665.
Principles and problems of recruitment, examination procedures, rating, classification and assignment to the job, with the philosophies of pay, promotion, employee motivation and discipline analyzed. Process of formulating and administering public personnel policies; concepts and principles utilized in selecting governmental personnel systems. Focus upon American national, state and local personnel systems.
- 577 Public Finance Administration. Three hours. A.**
Formerly POL 675.
Interactions among the administrative, legal, and legislative aspects of the fiscal decision-making process at federal, state, and local levels.
- 600 Research Methods in Political Science. Three hours. A.**
Prerequisite: Graduate standing in political science.
Bibliography and development of political science.
- 610 Seminar in Comparative Politics. Three hours. A.**
Formerly covered in part in POL 660.
Prerequisite: Approval of instructor.
Theories, analytic and organizing techniques, and sources of data utilized in comparative analysis of political environments, behaviors, structures, functions, processes, and/or policies.
- 620 Seminar in International Relations. Three hours. A.**
Formerly POL 655.
Prerequisite: Approval of instructor.
Inquiry into contemporary problems of international affairs; the nation-state system and concepts of national interest in modern politics; the forms and distribution of power by which states seek to implement national interests; the making of foreign policy and methods of adjusting international conflict.
- 635 Seminar on Intergovernmental Relations. Three hours. A.**
Prerequisite: Approval of instructor.
Study of adoption, maintenance, and operations of the American federal system. Attention focused on different interlevel and inter-jurisdiction relationships within the system to analyze its development and ability to deal with current problems.

POL POLITICAL SCIENCE

- 643 Seminar in Political Process. Three hours. A.**
Formerly POL 630.
Prerequisite: Approval of instructor.
Examination of theories of community power structure; analysis of political activity by pressure groups; legislative process; survey and evaluation of sources for political information. Conducted through discussions of problems arising in relationship between educational institutions and political affairs.
- 653 Seminar in Political Theory. Three hours. A.**
Formerly POL 645.
Intensive study of selected problems or writers.
- 663 Seminar in Public Law. Three hours. A.**
Formerly covered in part in POL 625.
Prerequisite: Approval of instructor.
Study in depth of selected problems in public law.
- 670 Public Administration Internship. Three to twelve hours. A.**
Formerly POL 650.
Prerequisite: Graduate standing and by invitation only after the completion of the MPA preliminary examinations.
Students will work under Department supervision in an office or with an official of a public agency or local government. A written report must be submitted to earn credit. May be repeated for a total of 12 hours.
- 673 Seminar in Theory of Public Administration. Three hours. A.**
Formerly POL 685.
Prerequisite: Approval of instructor.
- 695 Special Problems. One to three hours. I, II, S.**
May be repeated for a total of six hours provided that a different problem is studied each time.
- 699 Thesis. Three hours. I, II, S.**
May be repeated for a total of six hours.

Psychology (PSY)

RUSSELL F. ENZIE, Chairman

The Department of Psychology offers major work for the Master of Science degree with emphasis in clinical or school psychology, and the Master of Arts degree with emphasis in general psychology. Students pursuing the Master of Science degree and carrying a full program can expect to complete requirements in four semesters and one summer term, including the full-time one semester internship. Students pursuing the Master of Arts degree and carrying a full program can complete course requirements in two semesters, including six hours of thesis research. Some students may find that an added summer term will be needed to complete their research. Students majoring in other departments may elect selected graduate courses in psychology.

Special Program Requirements*

MASTER OF SCIENCE

In addition to the general requirements of the Graduate School, candidates must satisfy the following special requirements:

For Admission—A minimum of five courses in psychology: general psychology, statistics, and experimental psychology are required, and two other courses acceptable to the departmental admissions committee.

A grade point average of 3.0 in the major for the junior and senior years, and a minimum overall undergraduate grade-point average of 2.5 are required.

Arrangement by candidates for submission of three letters of recommendation, two related to the undergraduate major and one from elsewhere (with at least one from psychology).

Satisfactory performances on the Graduate Record Examination in the Aptitude Sections and the Advanced Test in Psychology. Required prior to admission.

Applications should be received by February 15. Notification regarding admissions usually will be made by March 15. Students applying later may be accepted as space is available.

For Graduate Program Planning—At the time of admission the student is assigned to a temporary committee chairman who advises in developing the planned curriculum, subsequent registrations, and presentation of the student to the faculty for Admission to Candidacy. A student pursuing the Master of Science degree must complete 10 credit hours before he may be admitted to candidacy for the master's degree. Students pursuing the Master of Arts degree will be evaluated for admission to candidacy at the end of their first semester of study. Such evaluations are scheduled by the departmental faculty during December, April and September only. Performance at or above the minimum level of academic achievement does not guarantee a student's admission to candidacy. Manifestation of satisfactory personal, professional and social adjustment are factors which enter into the department faculty's evaluation for the graduate degree in psychology. After admission to candidacy, the student elects a faculty member to serve as his permanent graduate committee chairman. The student and his committee chairman then select two other faculty members to serve on the student's committee. This committee is charged with the responsibility of advising and supervising the students satisfactory completion of all remaining requirements for the degree, including courses, research, comprehensive examinations and internship where applicable.

For Research—Students pursuing the Master of Science degree complete Research I and II courses, or the thesis option may be elected. Students pursuing the Master of Arts degree must complete six hours of thesis research credit and deposit three copies of his thesis prepared in style and format acceptable to the Graduate School.

For Comprehensive Examination—Candidates for the degree will take written and/or oral examinations in the area of study in which they seek the master's degree during their last term of training.

*Students must also meet the general requirements of the Graduate School.

For Internship — Students in both the clinical psychology and the school psychology programs must perform satisfactorily in PSY 699 in partial fulfillment of requirements for the degree.

For Clinical Psychology Emphasis — Requirements for the degree are a minimum of 60 graduate credit hours, including 10 credit hours for the one semester internship. Advanced practicum and internship placements, and the research project should reflect the selected clinical emphasis.

Core Courses: 23 hours
 Required — PSY 620, 622, 626, 653, 662 (or 690), 680, 681, 682, 686 (or 690)

Specialization Courses: 17 hours
 Required — PSY 624, 625, 641, 642, 644, 661

Practicum and Internship: 20 hours
 Required — PSY 643 (8 hours); 645, 646 or 647; 699

Restricted Electives: 2 hours
 Any 600 level course in the curriculum of the Department of Psychology for a minimum of two credit hours.

For School Psychology Emphasis — Requirements for the degree are a minimum of 61 graduate credit hours, including 10 credit hours for the one semester internship. Advanced practicum and internship placements, and the research project should reflect the selected emphasis.

Core Courses: 23 hours
 Required — PSY 620, 622, 626, 653, 662 (or 690), 680, 681, 682, 686 (or 690)

Specialization Courses: 16 hours
 Required — PSY 624, 625, 641, 642, 644, 683

Practicum and Internship: 18 hours
 Required — PSY 643 (8 hours); 699

Restricted Electives: 6 hours
 Elect either four-six hours in 600 level courses in philosophy, curriculum or survey in education or four hours in education courses and a minimum of two hours credit in a 600 level course in Psychology.

MASTER OF ARTS

For General Psychology Emphasis — Requirements for the degree are a minimum of 30 graduate credit hours including six credit hours for thesis research. One or more courses outside psychology may be elected in an approved academic discipline, usually the student's undergraduate major or minor other than psychology.

Core Courses: 4 hours
 Required — PSY 620, 626

Elective Courses: 20 hours
 PSY 622, 662, 670, 671, 672, 673, 677, 678, 680, 682, 687

Thesis Research: 6 hours

A total of 6 hours thesis credit for directed research

Course Descriptions

PSY PSYCHOLOGY

- 500 Social Psychology. Three hours. I, II.**
Prerequisite: PSY 211.
Behavior of individuals in relation to personality, social, and cultural systems.
- 501 Theories of Learning. Three hours. I.**
Formerly PSY 400.
Prerequisite: PSY 301 or approval of instructor.
In-depth study of learning theories. Emphasis on contemporary developments and current research.
- 620 Statistics. Three hours. I.**
Prerequisite: 291 or equivalent.
Theory and practice in the analysis and interpretation of psychological measurements.
- 622 Theories of Personality. Three hours. I, II.**
Formerly PSY 601.
Prerequisite: Approval of instructor.
Theories relating to structure, function and development of the individual to his dynamic behavior.
- 624 Individual Intelligence Testing. Three hours. I, II.**
Prerequisite: Approval of instructor.
Theory, supporting evidence, and practice of individual measurement of intelligence, and communication skills.
- 625 Personality Assessment. Two hours. I.**
Prerequisite: Approval of instructor.
History, theory, administration and interpretation of selected projective and non-projective personality tests.
- 626 Professional Concerns. One hour. I.**
Prerequisite: Approval of instructor.
Consideration of ethical and related problems of psychologists.
- 641 Psychopathology and Abnormal Psychology. Three hours. II.**
Prerequisite: PSY 622.
Description of symptoms and dynamics of psychological disorders with consideration of cause, development, modification and prevention.
- 642 Projective Techniques I. Three hours. II.**
Prerequisite: PSY 622 and 625.
History, theory, and rationale of projective techniques; administration and interpretations of the Thematic Apperception Test; and some familiarity with the Rorschach Inkblot Test.
- 643 Practicum. Four hours. A.**
Formerly part of PSY 660, 663, 684, and 685.
Prerequisite: Approval of department.
Supervised practice in applied settings. Selective participation with an assigned agency varies with the student program, with his level of preparation in course work and any previous supervised field experience. Class meetings as arranged and two full work days for 16 weeks in the assigned agency. Must be repeated once for a total of 8 credit hours.

PSY PSYCHOLOGY

- 644 Counseling and Psychotherapy. Three hours. I.**
Prerequisite: PSY 641 or approval of instructor.
Theories, principles and techniques for individual and group therapy. Two hours lecture, two hours supervised laboratory practice in therapeutic intervention. Approaches will include behavior modification, non-directive counseling and/or reconstructive psychotherapy in campus facilities and/or community agencies.
- 645 Specialized Techniques: Play Therapy. Two hours. A.**
Prerequisite: PSY 643.
Special arrangements for supervised practice in child therapy. Considerations of theory and practice with specialized methods with children. Class meetings by arrangements and one patient contact day per week.
- 646 Specialized Techniques: Behavior Modification. Two hours. A.**
Prerequisite: Approval of department.
Supervised practice in the use of specialized conditioning techniques in behavior change. Theory and methods in clinical practice. Class meetings arranged and one day per week in applied settings.
- 647 Specialized Techniques: Group Psychotherapy. Two hours. A.**
Prerequisite: PSY 643.
Supervised experience in therapy with groups. Theory and method of group therapeutic processes. Class meetings arranged and one day per week in applied therapeutic processes. Class meetings arranged and one day per week in applied settings.
- 653 Psychophysiology. Two hours. I.**
Prerequisite: Approval of department.
Study of the structural and functional units and divisions of the nervous system, endocrine glands and smooth muscles as correlates of psychological function. Special attention to relationship of psychophysiology and maladaptive patterns of personality.
- 661 Projective Techniques II. Three hours. I.**
Prerequisite: PSY 641, 642.
Continuation of Rorschach theory, method practice and interpretation.
- 662 Research I. Two hours. A.**
Laboratory course devoted to instrumentation, formulation of problems and orientation to research methods.
- 670 Seminar in Sensation and Perception. Three hours. A.**
Prerequisite: PSY 301 or 311, and approval of instructor.
Selected areas of contemporary theory and research. Attention, alertness and other recent and classical problems of central nervous system involvement in perception. Representative models of the perceptual processes as advanced by leading theorists.
- 671 Animal Behavior. Three hours. A.**
Prerequisite: PSY 313 and/or approval of instructor.
Critical areas of research on determinants of animal behavior. Emphasis on experimental findings regarding innate and species specific factors, learning processes including reinforcements, discrimination, insight and learning set phenomena. Two lecture hours, two laboratory hours.
- 672 Symbolic Processes. Three hours. A.**
Prerequisite: Approval of instructor.
Verbal learning, concept formation, problem solving, creativity. Special emphasis on human symbolic processes in verbal behavior.

PSY PSYCHOLOGY

- 673 Seminar in Physiological Psychology. Three hours. A.**
Prerequisite: PSY 311 or equivalent and approval of instructor.
Selected areas of contemporary theory and research. Special reference to circulatory, endocrine and neuropsychical systems.
- 677 Experimental Social Psychology. Two hours. A.**
Prerequisite: PSY 620, and 500 or equivalent.
Methodological and basic content problems and procedures in personal-social interaction. Special reference to contemporary theory and research.
- 678 Experimental Personality Psychology. Three hours. A.**
Prerequisite: Approval of instructor.
Examination of current methodology and empirical data with reference to investigations of personality variables.
- 680 Advanced Child and Exceptional Child. Two hours. I.**
Prerequisite: PSY 622, 640.
Theoretical issues and practical problems in intellectual, social, perceptual, physical and personality development with implications for education and adjustment.
- 681 Principles of Learning and Motivation. Three hours. I.**
Prerequisite: Approval of department.
Principles and supporting evidence in each area with emphasis on human application.
- 682 Social, Cultural and Family Dynamics. Three hours. A.**
Prerequisite: PSY 622.
Interaction of the individual with groups to include the effects of family structure and minority status.
- 683 Advanced Tests and Measurements. Two hours. I.**
Prerequisite: PSY 620.
Selected survey and application of group and individual tests used in school and clinical settings.
- 686 Research II. Two hours. I.**
Prerequisite: PSY 662.
Investigation of independent problems under staff supervision.
- 687 Independent Work in Psychology. One to three hours. A.**
Prerequisite: Approval of instructor.
Student responsibility for conceptualization and investigation of research problem and drawing formal conclusions. May be repeated for a maximum of six hours credit providing a different problem is studied each time.
- 690 Thesis Research. One to six hours. A.**
Prerequisite: Approval of department.
Experimental investigation of a selected topic, including preparation of a formal report. May be repeated for a maximum of six credit hours.
- 699 Internship. Ten hours. A.**
Prerequisite: Approval of advisor.
Intensive supervised practicum in approved setting.

Science (Interdisciplinary)

MASTER OF ARTS IN EDUCATION DEGREE**Curriculum in General Science:**

General Information—The Departments of Biology, Chemistry, Geology, and Physics, in cooperation with the College of Education, offer the Master

of Arts in Education Degree with emphasis in General Science. This degree is designed primarily for teachers of non-specialized science courses such as general science, life science, earth science and physical science. The program is intended to broaden the scientific background of the non-specialized science teacher and to help science teachers in all disciplines develop an ability to keep their teaching current — to recognize and introduce relevant new topics and discoveries as these become important and to adapt their teaching to the particular needs of the students and communities they will serve. This degree satisfies the requirements for standard certification but will not complete certification requirements in biology, chemistry, earth science or physics; however, courses taken may be applied toward such certification.

Admission — General requirements for the Master of Arts in Education must be met. The applicant should also be certified in at least one non-specialized science.

Program — A total of twenty-one hours must be taken in courses from biology, chemistry, earth science or physics. Nine hours must be taken in professional education. Courses must be selected with approval of the student's committee which will be composed of one member of each science and one member from the College of Education. Emphasis of each student's program must be directed toward a balance in the four science areas. Courses chosen may be selected from the following:

Biology: BIO 597, 598, 599, 601, 602, 609, 610, 611, 616, 647

Chemistry: CHE 511, 512, 613, 645

Education: EDF 669 (must be taken prior to the completion of nine hours) and one course from two of the following three areas

Area I — EDF 632, 636, 637

Area II — EDF 615, 650; EPY 616, 652

Area III — ESE 612, 663

Geology: GLY 501, 601

Physics: PHY 609, 610, 611

Other graduate courses from these departments may also be chosen. There is no thesis or language requirement. A final oral or written examination will be required.

COLLEGE OF BUSINESS

HOWARD THOMPSON, Dean

The College of Business, in association with the Graduate School, offers the Master of Business Administration Degree and, in cooperation with the College of Education, offers the Master of Arts in Education Degree in business education.

MASTER OF BUSINESS ADMINISTRATION DEGREE PROGRAM

Program Objectives

The Master of Business Administration Degree program is broad in nature and is designed to develop general competence in the functions of management. It provides for study in breadth in selected functional areas and for concentrated study in a specialized field of the student's choice.

The Master of Business Administration Degree program is designed to provide opportunities for developing skill in scientific analysis; the ability to integrate concepts and research findings of business and the behavioral sciences to draw logically sound conclusions; to think creatively; to communicate effectively; and to appreciate the role and responsibilities of business enterprise in our broad social framework.

Special Program Requirements*

For Admission — Applicants to the Master of Business Administration program must (1) hold a bachelor's degree from an accepted institution with work comparable to that required for the Business Core, (2) have a 3.0 grade point average on a four-point system. (However, under certain conditions students whose grade point average is lower than 3.0 may be accepted conditionally for admission), and (3) make satisfactory scores on the Graduate Record Examination and the Admission Test for Graduate Study in Business.

For General Information — Upon written petition, subject to the approval of the Chairman of the Graduate Committee of the College of Business, the student may transfer six semester hours of graduate level work from another accredited institution.

The maximum course load for graduate students studying in the College of Business is 12 semester hours; registration in excess of this maximum must be approved by the Chairman of the Graduate Committee of the College of Business. Students employed by the University shall consult the Chairman of the Graduate Committee of the College of Business about his combined course and work load.

At least twenty-four semester hours of work must be completed in courses open only to graduate students.

Students whose records, performance or examinations indicate deficiencies in the use of English will be required to take additional work to increase their proficiency in the use of English. This requirement will take precedence over all other courses in the student's graduate program.

*Students must also meet the general requirements of the Graduate School.

For Admission to Candidacy — Admission to candidacy is granted only if (1) all conditions and course deficiencies have been removed, (2) the student has completed at least nine but not more than 18 hours of graduate level work in the College of Business with at least a 3.0 grade point average, and

(3) The student is recommended by the Graduate Committee.

If in any semester of study the student fails to achieve at least a 3.0 grade point average, he will automatically be placed on academic probation. If, in the following semester, the student fails to achieve an overall 3.0 grade point average, he will be withdrawn from study in the College of Business. Following such withdrawal the student may be readmitted for further graduate study in the College of Business only if a petition (accompanied by a complete record of all college or university work previously undertaken) has been approved by the Chairman of the Graduate Committee of the College of Business and the Dean of the Graduate School.

For Thesis — Not more than six semester hours of credit may be earned for the thesis. A committee to direct and approve the thesis shall be nominated by the Chairman of the Graduate Committee of the College of Business.

For Non-Thesis — Students not electing to write a thesis must complete ECO 604, EDP 608, and OAD 600, commonly called "tool" subjects. These courses cannot be used to satisfy concentration requirements.

For Comprehensive — Students electing to write a thesis shall pass an oral examination on the thesis and the course work. Students electing not to write a thesis shall pass a comprehensive examination covering four areas of study, including the major area of study.

The comprehensive or oral examination shall be scheduled by the Chairman of the Graduate Committee of the College of Business in the semester in which the student expects to finish his course work or in the semester or summer session which his thesis is accepted, but not later than three weeks before the end of the semester or summer session. Should a student fail either the comprehensive or the oral examination, he may petition the Chairman of the Graduate Committee of the College of Business for not more than one additional attempt to qualify. Re-examination must be taken and passed within the next three semesters, including summer sessions, following the semester or summer session in which the student first failed to qualify, but at least sixty days must elapse between examinations.

For Prerequisites — All courses open only to graduate students are presented on the assumption that the students enrolled in them have had some foundation in accounting, economics, finance, management, marketing, business law or legal environment of business, and statistics. Students with deficiencies in any of these areas must supplement their formal degree programs with additional course work in the deficient areas.

For Program Planning — At least 30 semester hours must be taken in the fields of accounting, economics, and business administration. Each student will select an area of concentration in accounting, economics, or business administration.

Students selecting an area of concentration in accounting will take 12 semester hours of accounting, at least three semester hours in economics and at least three semester hours in marketing, management or finance. Students

selecting an area of concentration in economics will take at least 12 semester hours of economics, at least three semester hours of accounting and at least three semester hours in marketing, management or finance.

Students selecting an area of concentration in business administration will take 12 semester hours in the functional fields of marketing, management, and (or) finance, at least three semester hours in economics and at least three semester hours in accounting.

Accounting (ACC)

CLAUDE K. SMITH, Chairman

The Department of Accounting, in cooperation with the Graduate School and the College of Business, participates in the Master of Business Administration program. A student may take a concentration in accounting consisting of 12 hours of graduate level accounting courses. However, ACC 600 cannot be taken by students who have an undergraduate major in accounting. All accounting courses counting toward a concentration in accounting must be selected in consultation with the student's adviser. A detailed description of this program is presented elsewhere in this Catalog.

Course Descriptions

ACC ACCOUNTING

- 500 Public School and Governmental Accounting. Three hours. A.**
Prerequisite: Senior standing.
- 510 Survey of Accounting. Three hours. I, II.**
Prerequisite: Senior standing or bachelors degree completed.
The purpose of this course is to provide the graduate student with a basic foundation in the fundamentals of accounting in order to enable him to proceed with additional accounting courses that may be required in his graduate program. This course may not be taken for credit by students who have credit for either ACC 108 and 109 or their equivalent. This course will definitely not be accepted for any of the thirty hours in the MBA program, and will definitely not be accepted for the accounting requirement in the MBA program.
- 521 Fund Accounting. Three hours. I.**
Prerequisite: ACC 109.
Advanced study in accounting and fiscal procedures for institutions and federal, state, county, and municipal governments.
- 525 Accounting Problems. Three hours. II.**
Prerequisite: ACC 226.
This is an advanced course in accounting and the contents will be determined by the needs of the students registering for it.
- 527 Advanced Cost Accounting. Three hours. A.**
Prerequisite: ACC 327.
Advanced problems in costs, budgets, distribution costs, measurements of departmental efficiency, and analysis of cost information for managerial decisions.

ACC ACCOUNTING

- 600 Managerial Accounting. Three hours. II.**
Prerequisite: ACC 109.
A study of accounting procedures and systems to provide data for managerial decision making. Subjects include planning, analysis of relevant cost, impact of taxes and limitations of data.
- 625 Advanced Auditing. Three hours. II.**
Prerequisite: ACC 441.
Rules of professional conduct; auditing standards and case studies of American Institute of Certified Public Accountants; auditing rules and regulations of Securities and Exchange Commission; analysis of problem areas in reporting.
- 627 Research in Taxes. Three hours. I.**
Prerequisite: ACC 323.
An intensive analysis of the Internal Revenue Code. Research and discussion of tax problems affecting business and of tax planning and saving opportunities from the point of view of the professional accountant.
- 628 Accounting Theory. Three hours. II.**
Prerequisite: Strong accounting background.
History and theory of accounting as discussed in accounting literature, periodicals, research bulletins, and publications of professional organizations.
- 640 Seminar in Accounting. Three hours. A.**
Prerequisite: Strong accounting background.
This course involves directed readings and intensive investigation into controversial and specific areas of accounting. Oral and written reports are required.
- 690 Special Problems in Accounting. 1-6 hours. A.**
Prerequisite: Approval of chairman of department.
Intensive study of selected topics in Accounting. Selections will depend upon the needs of the student with the approval of major advisor and chairman of the Department of Accounting.
- 698- Thesis. Six hours. A.**
699 Individual direction of research and thesis writing.

Business Administration

WARREN MULLEN, Chairman

The Department of Business Administration, in cooperation with the Graduate School and the College of Business, participates in the Master of Business Administration program. Students selecting an area of concentration in business administration will take 12 semester hours in the functional fields of marketing, management and (or) finance, at least three semester hours in economics, and at least three semester hours in accounting.

Course Descriptions

EDP ELECTRONIC DATA PROCESSING

500 Quantitative Business Applications. Three hours. I.

Prerequisite: EDP 400, 445 or 450.

Programming for decision-making under uncertainty. PERT, optimization, inventory control models, linear programming, transportation models, dynamic programming, queuing models and simulation.

510 Digital Logic. Three hours. II.

The analysis and design of simple elements of computer circuits. Combinational logic, minimization and decomposition of switching functions, NA/ND and NOR synthesis, fault detection and numerical methods in combinatorics. Synchronous sequential circuits, finite state modeling, state equivalence and incompletely specified machines.

595 Special Problems in Data Processing. One, two or three hours. A.

Prerequisite: approval of instructor or chairman of the department. Independent work, special topics, special workshop or seminar.

604 Introduction to Information Processing. Three hours. S.

Prerequisite: Senior or Graduate Standing.

Functional application of business problems utilizing electromechanical equipment and the electronic computer with emphasis for business education.

608 Computer Information Systems. Three hours. I.

Prerequisite: Senior or Graduate Standing.

Characteristics, nature and potential of computerized information systems. How computer-base systems are constructed and the opportunities and problems associated in matching the computer system to the needs of the organization.

690 Independent Study in Data Processing. One to four hours. A.

FIN FINANCE

590 Special Problems in Finance. One to four hours. A.

600 Administrative Analysis in Finance. Three hours. S.

Prerequisite: Graduate Standing.

Readings, problems and study of current controversial issues with emphasis on decision-making in the financial administration of the firm.

601 Seminar In Investments. Three hours. A.

Prerequisite: Graduate Standing.

Readings on traditional and current issues emphasizing the need for continuing and penetration analyses of the valuation, selection, portfolio timing and balance of securities investment. Technical competency is not emphasized as much as developing the broadly cultivated mind required to acquire insight into the dynamics of the securities investment problem.

690 Independent Study in Finance. One to four hours. A.

698-699 Thesis. Six hours. I, II, S.

Individual direction of research and thesis writing.

MGT MANAGEMENT

590 Special Problems in Management. One to four hours. A.

600 Administrative Analysis in Management. Three hours. I.

Prerequisite: Graduate Standing.

Examines the evolution of management concepts and philosophies. An analysis of the contributions of various philosophies in the synthesis of an eclectic philosophy of management.

- 620 Administrative Analysis of Complex Organizations. Three hours. I.**
Prerequisite: Graduate Standing.
Parallel analyses of administrative practices in business and government with emphasis on administrative theory. Stress placed on administrative practices observed in the functions of planning, organizing, directing and controlling.
- 690 Independent Study in Management. One to four hours. A.**
- 698-699 Thesis. Six hours. I, II, S.**
Individual direction of research and thesis writing.

MKT MARKETING

- 500 Marketing Research and Analysis. Three hours. I.**
Prerequisite: MKT 300 and ECO 391.
Use of secondary research resources, building of bibliographies; preparation of reports for executives and clients.
- 504 Marketing Management. Three hours. II.**
Prerequisite: MKT 300 and Senior or Graduate standing.
Policies and procedures in merchandising; selecting distribution channels; defining, locating and reaching the market; determining marketing budgets; integrating advertising, personal selling and sales promotion; using and evaluating market research.
- 590 Special Problems in Marketing. One to four hours. A.**
- 600 Marketing Problems. Three hours. S.**
Prerequisite: Graduate Standing.
A survey, analysis and evaluation of current trends, controversial issues and advanced technology in the field of marketing. The course is oriented toward decision-making from the standpoint of marketing administration in the firm.
- 690 Independent Study in Marketing. One to four hours. A.**
- 698-699 Thesis. Six hours. A.**
Individual direction of research and thesis writing.

Business Education and Office Administration (BED and OAD)

ALFRED PATRICK, Chairman

Students may earn the Master of Arts in Education degree with a specialization in business education. For information concerning admission to this degree program, consult the College of Education section of the **Graduate Catalog**.

For Program — The education core (nine hours) and the business education core must be completed; the business education core consists of the following courses: BED 570; 600; 620; 660; and one of BED 610, 630, or 640. EDP 604 is also required if the student has not had a comparable course at the undergraduate level. The remaining hours necessary to complete the 30-hour program will be chosen in consultation with the student's graduate advisor. Courses to correct undergraduate deficiencies in some areas of business may also be required.

Course Descriptions

BED BUSINESS EDUCATION

- 550 Special Problems in Business Education. One to Four hours. A.**
Workshops and/or individual research on selected topics or problems in business education. May be repeated for a maximum of four credit hours.

BED BUSINESS EDUCATION

- 560 Cooperative Business Education Programs. Three hours. A.**
Background, aims, coordination techniques, and administrative policies for organizing and operating cooperative programs in business occupations.
- 570 Tests and Measurement in Business Education. Three hours. I.**
Basic qualities of good tests; emphasis placed on construction, analysis, and revision of tests in business education subjects.
- 600 Principles of Business Education. Two hours. I.**
Objectives, principles, curricula, and trends of business education on the secondary level.
- 610 Improvement of Instruction in Shorthand and Transcription. Two hours. A.**
- 620 Improvement of Instruction in Typewriting and Office Practice. Two hours. I.**
- 630 Improvement of Instruction in Basic Business Subjects. Two hours. A.**
- 640 Improvement of Instruction in Bookkeeping and Accounting. Two hours. II.**
- 650 Administration and Supervision in Business Education. Two hours. A.**
Problems in budgeting, layout, equipment, curriculum planning, and supervision in business education.
- 660 Seminar in Business Education. Three hours. II.**
Reading and discussion relating to the major current problems in business education.

OAD OFFICE ADMINISTRATION

- 540 Records Management. Three hours. A.**
Formerly OAD 460.
Creation, classification, retention, protection, and disposal of records; filing procedures and equipment; effects of automation on records management; layout of facilities; records personnel administration; emphasis on administrative control of records.
- 560 Office Management. Three hours. I, II.**
Function and organization of the office; office layout and equipment; office personnel; work simplification and control; automation in the office; planning, organizing, and controlling office services; systems and jobs analysis.
- 570 Advanced Administrative Office Management. Three hours. A.**
Prerequisite: OAD 560 or equivalent; or experience in office management.
Investigation of problems in such areas as office systems, systems analysis, work simplification, development of performance standards, forms design, mechanization and automation, work measurement, training programs.
- 580 Special Problems in Office Administration. One to four hours. A.**
- 600 Business Research and Report Writing. Three hours. II.**
Prerequisite: ECO 391 or equivalent.
Nature, scope, and importance of business research; research methodology; principles and mechanics of formal report writing; collection of data and completion of a formal report by each class member.
- 680 Independent Study in Office Administration. One to four hours. A.**

Economics

DONALD SHADOAN, Chairman

The Department of Economics, in cooperation with the Graduate School and the College of Business, participates in the Master of Business Administration program. A student enrolled in this program may take a concentration in economics consisting of 12 hours of graduate level economics courses. In addition, the student is required to take ECO 604 as a tool subject. All economics courses counting toward a concentration in economics must be selected in consultation with the student's advisor. A detailed description of this program is presented in this catalog.

ECO ECONOMICS

520 Economic Thought and Philosophy. Three hours. II.

Prerequisite: ECO 231.

A study of the evolution of economic ideas from the Mercantilist period until present. Relation of the various schools of economic thought and their adherents to the development of a market system philosophy. Radical departures from orthodox economics are studied. This course may not be taken for credit by students who have previously taken ECO 511.

530 Quantitative Methods in Accounting, Business, and Economics. Three hours.

Prerequisite: ECO 391 or approval of instructor.

The course will consider such as the following: probability; decision making; linear programming; game theory; inventory models; queuing models; transportation problems; and simulation techniques.

550 National Income Analysis. Three hours. I.

Prerequisite: ECO 231.

A study of macroeconomic concepts at the intermediate level. Topics studied are: national income; consumption theory; investment theory; inflation and deflation; monetary theory; the government in economic stabilization; and the comparison of Classical, Keynesian and modern theories.

560 Special Problems in Economics. Three hours. A.

Prerequisite: Approval of advisor and chairman of the department. Independent work, special workshop, special topics, or seminar.

593 Intermediate Economic Theory and Analysis. Three hours. I, II.

Prerequisite: ECO 231.

A development of the leading theories and analysis of value and distribution. Problems and policies of price determination of both the firm and the industry and factor pricing are considered at the intermediate level of analysis.

595 The Economics of Growth and Development. Three hours. II.

Formerly ECO 495.

Prerequisite: ECO 231.

The measurement of underdevelopment; the international distribution of income; the causes of economic growth; public policy for the promotion of economic growth; theories and development.

597 Private Enterprise and Public Policy. Three hours. I.

Prerequisite: ECO 231.

A study of the principal statutes pertaining to business behavior and their application by agencies and the courts. Specific policies are analyzed from the standpoint of legal and economic concepts and principles underlying them.

ECO ECONOMICS**600 Managerial Economics. Three hours. II.**

This course deals with economic concepts that are directly relevant to managerial decision making. The topics studied are: demand and demand forecasting; cost analysis; production theory, and pricing under competitive and imperfect market conditions.

604 Statistical Methods. Three hours. I.

Prerequisite: ECO 391 or equivalent.

An intermediate course in statistical methods that deals with the following topics: sampling theory, elementary probability theory, multiple and linear correlation analysis, hypothesis testing, chi-square distribution, analysis of variance, economic forecasting, and non-parametric statistics.

620 Contemporary Economic Problems. Three hours. A.

Prerequisite: ECO 231 and approval of instructor.

This course deals with the application of economic principles to certain contemporary economic problems such as economic growth, economic stability, taxation, employment, poverty, national debt, gold outflow, monetary and fiscal problems.

660 Independent Study in Economics. One to four hours. A.**698-699 Thesis. Six hours.**

Individual direction of research and thesis writing.

COLLEGE OF EDUCATION

DIXON A. BARR, Dean

JOHN LINWARD DOAK, Associate Dean

Eastern Kentucky University has maintained a strong interest in and commitment to the preparation of teachers since its founding in 1906.

The College of Education in cooperation with the Graduate School has developed and implemented Master of Arts in Education Degree programs for elementary school teachers, guidance counselors, school librarians, school social workers, special educators, and secondary school teachers of health and physical education. Other graduate programs include a fifth year program for certificate renewal, a sixth year program leading to Rank I certification, the Master of Arts Degree in guidance and counseling for industrial and community services and a program in student personnel services in higher education, the Master of Science Degree in physical education, and in recreation and park administration, the Specialist in Education Degree in administration and supervision, elementary education, physical education, school counseling and guidance, student personnel services in higher education, and a joint doctoral program in education (Ed. D.) with the University of Kentucky. Work leading toward ultimate certification in school administration and/or supervision may be elected, subject to institutional approval, while pursuing the master's degree in a teaching field. Graduate programs leading to the Master of Arts in Education Degree have been developed in many secondary teaching fields in cooperation with the College of Applied Arts and Technology, the College of Arts and Sciences, and the College of Business. Overall program requirements follow below. Curricular and disciplinary requirements are described in the sections of the cooperating departments.

Special Program Requirements*

MASTER OF ARTS IN EDUCATION

In addition to the general requirements for all master's degrees found elsewhere in this publication, the following specific requirements are in effect for the Master of Arts in Education:

For Admission — The student preparing for the standard secondary teaching certificate must select a major field of interest in which he has at least a teaching minor. If he does not have at least a minor, he will be required to take work at the undergraduate level sufficient to develop a satisfactory minor.

All applicants must have earned a grade of "C" or better in student teaching in order to be eligible for admission to a Master of Arts in Education program.

For Admission to Candidacy — Every candidate for the Master of Arts in Education Degree must have had a minimum of 15 semester hours professional work at the undergraduate and/or graduate level.

*Students must also meet the general requirements of the Graduate School.

All candidates must furnish evidence of teaching certification in the field of study chosen prior to admission to candidacy.

Students shall present an acceptable score on the aptitude test of the Graduate Record Examination or Undergraduate Record Examination prior to admission to candidacy for the degree.

Each candidate shall have had an interview with an appropriate graduate committee. The committee shall recommend an applicant's admission to candidacy to the Graduate School following a positive appraisal of the student's personality, character, academic proficiency, and other factors deemed important for completion of the particular curriculum in which the student is working.

Additional criteria may be employed by a graduate committee providing these criteria shall first have been approved by the Teacher Education Committee and filed with the Dean of the Graduate School.

For Program Planning—Every candidate for the degree shall present a minimum of 9-10 semester hours in professional education as a component of the graduate program and meet all requirements for provisional certification.

The remainder of the course work shall be determined by the institution in terms of the student's need, provided (1) that at least 12 hours shall be in an approved field or fields of interest outside professional education, and (2) that all such course work shall be approved upper division or graduate in level.

The degree will be granted only to candidates offering a minimum of 30 hours of course work in his major field of emphasis, including graduate and undergraduate work.

For Residence—Candidates for the Master of Arts in Education Degree are restricted to transfer of not more than six semester hours.

For thesis—While the thesis is not required in any program leading to the Master of Arts in Education Degree, students with special research interests are encouraged to consider a thesis.

For Comprehensives—The candidate will have an opportunity to demonstrate professional growth through a written and/or oral examination covering education and major program components during the term in which graduation is scheduled. A representative of the College of Education shall participate in the evaluation process.

For Curriculum Requirements for Graduate Programs in Education—Common to all programs leading to the degree, Master of Arts in Education, is the professional education core, from which a minimum of nine hours must be completed.

Professional course options are presented below:

Required prior to the completion of nine hours, EDF 669, three hours. A **minimum** of six hours with at least one course chosen from two of the following categories.

Area I. Historical/Philosophical

EDF 632 History of Education in the United States	3 hrs.
EDF 636 Philosophy of Education	3 hrs.
EDF 637 Comparative Education	3 hrs.

II. Sociological/Psychological

EDF 615 Human Development	3 hrs.
EPY 616 Educational Measurement	3 hrs.
EDF 650 Educational Sociology	3 hrs.
EPY 652 Advanced Educational Psychology	3 hrs.

III. Curriculum/Instructional

ELE 610 Elementary School Curriculum	3 hrs.
ESE 612 Curriculum Theory and Development	3 hrs.
ESE 663 Secondary School Curriculum	3 hrs.

The latitude of course selection provided above imposes an additional responsibility upon the student and his advisor. Individuals interested in post-master's degree certificates in administration and supervision should exercise particular care in course selection.

Students who are taking their initial coursework at off-campus centers must file through their advisor, a complete program of study with the Dean of the Graduate School prior to the completion of more than six hours of credit off-campus.

For Rank II Certification, the Fifth Year Program — In recognition of the increasing demands for the continuing education of teachers, the College of Education offers, in cooperation with other departments of the University, a **fifth year** of study leading to the Rank II elementary or secondary certificate. This program will appeal to the teacher unable to qualify for a Master of Arts or Science degree program either because of prior preparation or level of previous academic achievement. It will be attractive to teachers unable or unwilling to meet the usual examinations requirements.

Requirements include: (1) 12 hours must be completed at the graduate level; (2) 12 hours must be taken in an academic area or areas; (3) the remaining eight hours required should be chosen to fit general or specific needs of candidates without regard to offering department; (4) 12 of the 32 hours must be professional education.

Professional Education Core requirements may be met through completion of (1) a minimum of six hours with at least one course chosen from two of the following areas:

- A. EDF 632, 636, 637
- B. EDF 615, 650, EPY 616, 652
- C. ELE 610, ESE 612, 663

(2) Six additional hours of professional education selected from approved courses offered in the College of Education.

Six hours of approved course work may be transferred from accredited four year colleges.

Programs of study must be approved and filed with the Dean of the Grad-

uate School **no later than the term during which six hours are to be completed.**

Candidates for the certificate must maintain a 2.25 grade point standing. No more than 40 credits (32 required) may be submitted to achieve the necessary average.

All credits must be completed within ten years of enrollment in the program.

For the candidate who wishes to transfer later to a degree program, not more than 12 hours of appropriate credits will be allowed degree requirements.

For Rank I Certification

The College of Education in cooperation with offering departments within the College of Education, the College of Applied Arts and Technology, the College of Arts and Sciences, the College of Business, and the Graduate School, offers Rank I programs for guidance counselors, school administrators, supervisors, directors of pupil personnel, and teachers.

Program guidelines are highly flexible. General institutional guidelines for teachers include: six hours additional professional education electives, a minimum of 24 hours in the teaching field in the combined master's degree and sixth year program, and six hours free electives. Proposed programs should be filed through the advisor with the Dean of the Graduate School no later than the time 12 hours have been completed toward the program.

For further details, the reader should consult the appropriate departmental section or advisor.

FOR SPECIALIST IN EDUCATION DEGREE (Ed. S.)

NATURE AND PURPOSE OF THE DEGREE

The Specialist in Education Degree is a professional degree, designed for those preparing for positions which call for a level of study and specialization beyond the master's degree. Its specific functions are to:

Increase the effectiveness and competence of elementary and secondary classroom teachers as specialists in planning and guiding learning experiences.

Provide the additional preparation needed for certification and competence in a specialized school position, in the role of college teacher, and by those engaged in student personnel work.

The 30-hour **minimum** requirement is a structured and unified program oriented toward the student's professional objectives. For selected students, planning for the specialist degree may begin following completion of the baccalaureate degree. For some students the Specialist in Education Degree may lead to advanced study for the doctorate.

Students are urged to spend as much time in full-time residence as possible. Extensive use of the library, informal associations with fellow students and with staff, and participation in non-class activities provided by the University afford important learnings that can only be realized through full-time study.

ADMISSION REQUIREMENTS

The promise of the applicant as a successful professional worker in his chosen field is central to admission to the specialist program. To this end,

admission to the Specialist in Education program is based upon the following entrance requirements:

1. Completion of requirements for the master's degree from an accredited college or university.
2. A score on the combined aptitude tests of the Graduate Record Examination at a level above the 65th percentile, based on scores achieved by Eastern Kentucky University seniors within programs.
3. Acceptable scores on one or a combination of appropriate standardized measures when required for specific programs.
4. Successful professional experience appropriate to and as required in specific programs.
5. Evidence of academic competence, physical and emotional health, and moral character based on letters of recommendation from graduate faculty and professional associates in administrative and/or supervisory roles.
6. Completion of application forms for admission to the program.
7. Personal interview, following receipt of the above data, with a screening and selection committee composed of three persons appointed by the department chairman. The interview should be held as early as possible, but not later than the student's first semester on campus and prior to application for **admission to candidacy**.

PROGRAM REQUIREMENTS

Each candidate's program of study will be designed to meet his specific needs as they relate to his chosen field of specialization. Provision is made for a core of courses, for additional courses in the area of specialization and in cognate fields as appropriate, for independent study, and for the development of a specialist project.

Core courses. A 12-hour block of courses is a part of all Specialist in Education programs. Nine of the 12 hours relate to the kind of experimentation and action research that are a part of the continuing work of the educator. The student is provided opportunity to become acquainted with research in his field of specialization and to gain the needed background in the methodology of experimentation. (Core courses are identified in the individual departmental sections).

Additional work in the area of specialization. Courses, seminars, and practice in the area of specialization are named and described in the section relating to the particular program.

Independent study. Students **admitted to candidacy** for the specialist degree may engage in independent study with credit. Other than those directly related to the specialist project, activities may include library research, conferences, discussions, writings, observations, visits, interviews, and direct practical experience in the field of specialization. Credit is based upon evidence of growth in accord with the goals outlined for the independent study by the student and his adviser.

Specialist project. The specialist project is another form of independent study

in which each student engages. It is planned with reference to the professional goals of the student and his needs and interests as related to those goals. A written report will be made embodying the results of the investigation.

Overall guides for program requirements. In addition to the previously stated requirements, the following guides should be noted.

1. **A minimum of 30 semester hours** of graduate work beyond the master's degree, including the specialist project, must be **completed**.
2. **Fifteen hours** of course work must be completed **after admission to candidacy**.
3. **Candidates** may take a maximum of six semester hours through extension and/or transfer from an institution with a recognized sixth-year graduate program. Course work so completed must be approved by the student's advisory committee as meeting program requirements.
4. At least 15 semester hours must be in **courses numbering 600 and above**.
5. Minimum residence requirements can be met through one regular enrollment period, exclusive of intersession, as a full-time graduate student.
6. **The expected time limit** for the completion for all requirements for the Ed.S. Degree is six years from the date of admission to the specialist degree program. All course credits must be earned within the eight-year period prior to the awarding of the degree.

The candidate for the Ed.S. Degree advances toward the awarding of that degree as he takes the following steps in the order indicated.

STEPS IN ADVANCEMENT TOWARD THE DEGREE

1. **Admission to the Graduate School.** The candidate has completed admission requirements when he has:
 - a. Filed admission data on forms secured through the Graduate School, including two official copies of transcripts from **all** colleges attended.
 - b. Identified for the Graduate School persons who can respond to the student's qualifications to engage in graduate study. Requested recommendations from two college faculty members and from two professional associates in administrative and/or supervisory roles are sent directly to the Graduate School.
 - c. Presented a score on the combined aptitude tests of the Graduate Record Examination above the 65th percentile, based on scores achieved by Eastern Kentucky University seniors within programs.
 - d. Requested appointment of a graduate advisory committee, through the department chairman. Usually three faculty members in the student's field of specialization constitute the committee.
2. **Admission to graduate study in the Ed.S. program.** The candidate may apply for admission to graduate study leading to the Ed.S. Degree when he has been admitted to the Graduate School and taken the following steps:
 - a. Satisfactorily completed admission examinations designated by the department.

- b. Attained approval by the Ed.S. screening and selection committee.
 - c. Requested that the department chairman review with the candidate the membership on the graduate advisory committee. The student has the option of nominating at least one committee member from the graduate faculty.
 - d. Developed with his advisory committee a tentative program of studies.
 - e. Requested that his committee recommend admission to the Ed.S. program.
3. **Admission to candidacy for the Ed.S. Degree.** A letter of request for admission to candidacy for the Specialist in Education Degree should be filed by the student with the chairman of his advisory committee.
- a. When a minimum of nine semester hours of graduate credit beyond the master's degree has been earned at Eastern Kentucky University. (A minimum of 15 semester hours must be taken **after** admission to candidacy.)
 - b. When work taken toward the Ed.S. Degree shows a grade point average of 3.3 or above.
 - c. When the advisory committee has approved the planned program of study and a copy of this program has been filed with the committee chairman, the department chairman, and the Dean of the Graduate School.

Following the student's initiation of application for candidacy, the committee through its chairman recommends candidacy to the Graduate Council.

4. **Completion of degree requirements.** In working with the student toward the completion of degree requirements, the chairman of the advisory committee will take a leadership role. Other members of the committee will serve in a supporting role as requested by the chairman and/or the student. Major activities of the committee include
- advising with the student regarding the selection of his specialist project, assisting him in its development, and recommending approval of the written report of the project.
 - participating in the final oral presentation and defense of the project.
 - recommending the awarding of the Ed.S. Degree.

The student will be awarded the Specialist in Education Degree when he has met the following requirements:

- a. Completed course requirements (minimum of 30 semester hours) with a grade point average of not less than 3.0 (4 point scale).
- b. Satisfactorily passed final comprehensive written and/or oral examinations required by the department.
- c. Submitted the report of his specialist project, in writing, to members of his committee and secured their approval to arrange for an oral examination and defense of the project. (The completed project must be submitted to committee members at least one week prior to the

scheduled defense. The oral defense must be scheduled at least two weeks prior to the close of the semester in which the degree is to be awarded.)

- d. Satisfactorily defended the project in an oral examination.
- e. Presented three **approved** copies of the project, unbound in final form, to the Graduate School at least one week before the close of the term in which the student is to be certified for graduation. In preparing final copies of the project, as well as the copies submitted in "c" above, it is recommended that the Turabian "Manual for Writers" be followed.
- f. Has prepared and presented to the Graduate School four copies of an abstract of 400 to 600 words suitable for publication. The abstract is due when copies of the project are filed.
- g. Filed an application for graduation as instructed by the Graduate School.

The Joint Doctoral Program in Education (Ed.D. Degree)

The College of Education provides course work for the major field of study in support of the Joint Doctoral Program cooperatively offered, through the Graduate School, with the University of Kentucky.

Special Program Requirements*

For Admission — The applicant should present a score of at least 1000 on the combined aptitude tests of the Graduate Record Examination.

The applicant should rank at or above the 60th percentile on the Miller Analogies Test.

Normally three years of appropriate experiences are required.

For Committee — The student's advisory committee shall be comprised of: the dissertation director, at least one faculty representative of the major area, and one representative from the minor area, from the University of Kentucky; and, one representative of the major area and one representative from the minor area from Eastern Kentucky University.

For Residence — The student must complete a minimum of 18 semester hours of his doctoral course work, take the qualifying examinations, and complete the dissertation project at the University of Kentucky.

The minimum residence period at the University of Kentucky is one academic year.

For Program — The following majors are offered through the program: administration and supervision, foundations, guidance and counseling, vocational education, business education, curriculum — elementary, secondary, and special education.

*Students must also meet the general requirements of the cooperating graduate school.

Educational Administration (EAD)

HENRY G. MARTIN, Chairman

The Department of Educational Administration, cooperating with other departments, offers course work for elementary and secondary principals, supervisors, school business administrators, and superintendents. Course work in these areas is designed for those who seek certification and Rank I programs. The Specialist in Education Degree is offered in administration and supervision.

Special Program Requirements*

All students seeking certification through the Department of Educational Administration must first make application and be admitted by the Graduate School to sixth year graduate work. The Department of Educational Administration admits the student to specific certification programs.

PROFESSIONAL CERTIFICATION IN ADMINISTRATION AND SUPERVISION

For persons holding the standard elementary or secondary teaching certificate based upon the master's degree, Eastern offers appropriate course work leading to the professional certificate in administration and supervision with endorsement in elementary or secondary administration or supervision of instruction. These programs require completion of a minimum of fifteen hours of course work beyond the master's degree.

CURRICULUM FOR THE ELEMENTARY PRINCIPAL

Prerequisites: The master's degree and the standard elementary teaching certificate, ESE 612, EDF 615, EDF 669, and EDF 636 or EDF 650, and a graduate course in the teaching of reading.

Administrative Core: EAD 600, ELE 610, EAD 611, EPY 616, EAD 606. Minimum program length is 15 hours. Appropriate substitutions will be made for individuals having completed prescribed courses at the master's degree level.

Rank I Program Options: The individual holding the professional certificate in administration and supervision with specialization in the elementary principalship may, with the consent and assistance of his advisor, elect to complete additional areas of certification in administration, or he may elect to broaden his background for the elementary principalship, leading to Rank I.

CURRICULUM FOR THE SECONDARY PRINCIPAL

Prerequisites: The master's degree and the standard secondary teaching certificate. ESE 612, EDF 615, EDF 669, and EDE 636 or EAD 650.

Administrative Core: EAD 600, EAD 611, EPY 616, EAD 607, and ESE 663. Minimum program length is 15 hours. Appropriate substitutions will be made for individuals having completed prescribed courses at the master's degree level.

*Students must also meet the general requirements of the Graduate School.

Rank I Program Options: See statement under 'Elementary Principal'.

CURRICULUM FOR THE SUPERVISION OF INSTRUCTION

Prerequisites: The master's degree and either the standard elementary or the standard secondary teaching certificate. ESE 612, EDF 615, EDF 669, and EDF 636 or EDF 650.

Administrative Core: ELE 610, ESE 663, EAD 611, EPY 616; one of the following: SED 521, SED 522, SED 523, SED 602, SED 610; and an acceptable graduate course in reading. Minimum length of program is 15 hours.

Rank I Program Options: See statement under 'Elementary Principal'.

CURRICULUM FOR THE SUPERINTENDENCY

The curriculum for the school superintendent shall include a minimum of thirty semester hours graduate credit beyond the master's degree. Those students holding a professional certificate in administration and supervision with an endorsement as an elementary or secondary principal may find that a minimum of fifteen additional semester hours will qualify them for the superintendency. The superintendency certificate and the Rank I program in this area shall include the master's degree; either the elementary or secondary principalship program listed above; and EAD 601, EAD 602, EAD 603, EAD 605, and EAD 640. The superintendency certificate also requires ELE 610 or ESE 663. (One will have been taken in the principalship program.) The program shall include no less than six graduate hours of behavioral science.

CURRICULUM FOR THE SCHOOL BUSINESS ADMINISTRATOR

Prerequisite: Possession of the bachelor's degree from an accredited four year college or university with a major or minor in business or commerce, accounting or management. Candidates must be admissible to graduate study and provide evidence of commitment to a career in school business management.

Provisional certificate: No less than eighteen semester hours applicable toward the standard certificate for school business administrator, nine of which must be completed at Eastern; six of these nine hours must be graduate level courses. The applicant must check with the advisor as to other institutional and state requirements.

Standard certificate requires: a master's degree in the appropriate field, plus three years experience and other conditions set by the State Department of Education, plus the following: EAD 605, GBU 300, ACC 500, FIN 460, EAD 602, EAD 603, OAD 560, ACC 108 & 109; One course from EAD 636, EDF 632, EDF 638, or EDF 650; Two courses from: EAD 600, EAD 601, EAD 606, EAD 607, EAD 611, or EAD 640.

CONVERSION PROGRAMS

It is possible to convert from the elementary principalship to the secondary principalship, or vice versa, through taking additional graduate courses recommended by the student's advisor in the principalship program.

CURRICULUM FOR THE SPECIALIST IN EDUCATION DEGREE

The applicant for the Specialist in Education Degree must work closely with the advisor on such things as:

1. Evaluation of previous graduate work.
2. Fulfilling requirements set forth in the guidelines for Ed.S. Degree.

3. Completing required application blanks.
4. Establishing a program which lists courses to be taken for the area of specialization.

Course requirements devoted to issues and scientific research include 12 semester hours. The core is: EAD 691, EAD 697, EAD 698, EDF 695, and EAD 699. Those admitted to the program will work with the advisor in developing a list of classes required. A committee will supervise the research and the writing of the specialist project.

CURRICULUM FOR THE SPECIALIST IN EDUCATION DEGREE

Admission: Acceptable scores on the Graduate Record Examination, including the Advanced Test in Education; and acceptable undergraduate and prior graduate academic record; a record of professional experience satisfactory to the Department.

Admission to Candidacy: Graduate School requirements, treated elsewhere in the Catalog, must be satisfied. Departmental requirements, including a positive assessment of the individual's professional promise, must be met.

Program: Curricula shall be individually planned; the program outlined below will be useful for general advisory purposes only.

Research Core — EAD 691, 697, 698, 699, EDF 695.

Administrative Core — EAD 600, 601, 602, 603, 605, 606, or 607, 611, ELE 610 or ESE 663.

Project — All candidates must complete an acceptable Specialist Project, EAD 698-699.

Comprehensives — Candidates will be expected to provide evidence of professional maturity through written and/or oral comprehensive examinations.

Course Descriptions

EAD EDUCATIONAL ADMINISTRATION

- 507 Problems in Educational Administration. One to three hours. A.**
Prerequisite: Approval of advisor and the chairmen of the department. For independent work, special workshops, or a special topic, or seminar.
- 600 Introduction to Educational Administration. Three hours. I, II.**
Study of theories of administration and practice at the district and community level. Administrative functions and types of school organizations are examined. Research studies which have been completed by state and regional administrative groups make up a large part of the material for the course.
- 601 School Personnel Administration. Three hours. A.**
Principles of personnel administration and their application in obtaining, utilizing, compensating, developing, and separating school personnel.
- 602 School Buildings and Grounds. Three hours. A.**
Emphasis on the cooperative planning of school buildings which fit the school program as identified by educational specifications. Equipping, furnishing, and maintaining buildings are studied.

EAD EDUCATIONAL ADMINISTRATION

- 603 School Finance. Three hours. A.**
Problems, issues, trends, and the structure of financing schools. Systems analysis, program budgeting, and accountability are analyzed at state/local levels.
- 605 School Law. Three hours. A.**
Legal principles and interpretations of constitutional and statutory laws. Judicial decisions, school codes pertaining to administration and supervision of public and private schools.
- 606 The Elementary School Principal. Three hours. I.**
Prerequisite: EAD 600
Organization and management of the elementary school. Study of the various duties, demands, and responsibilities of the elementary school principal in providing professional and educational leadership.
- 607 The Secondary School Principal. Three hours. II.**
Prerequisite: EAD 600
Organization and management of the secondary school. Study of the various duties, demands, and responsibilities of the secondary school principal in providing professional and educational leadership.
- 608 Administration and Supervision of Early Childhood Education Centers. Three hours. A.**
Legal and practical aspects of administration and supervision in early childhood education including funding, staffing, staff development, parental involvement, facilities, record keeping, health, and community relations. Special attention to Kentucky statutes and policies and to Federal guidelines.
- 611 Supervision of Instruction. Three hours. I.**
Organization and functions of school supervision; current practices, problems, objectives, and techniques.
- 621 Practicum in Administration and Supervision. Three hours. A.**
Prerequisite: Professional certificate in administration and supervision.
Field experiences with emphasis on organization and administration of schools in the applicant's specialized area of certification. Campus seminars will be held to analyze problems and experiences of the field activities.
- 640 The Superintendency. Three hours. I.**
Specific competencies in combining administrative theory and practices in city and county schools. Appraisal of programs, purchasing, contracts, bonds and securities, central office services, professional negotiations, role of school boards. Case Studies.
- 691 Issues and Trends in Educational Administration and Supervision. Three hours. A.**
Exploration of basic issues and trends in the field of educational administration and supervision. Development and critical analysis of substantive positions on issues and movements. Taken during the student's first nine hours in the Ed.S. program.
- 697 Independent study. One to three hours. A.**
Designed for advanced graduate students who desire to investigate special problems relating to educational administration and/or supervision.

- 698 Research Design in Educational Administration and Supervision. Two hours. A.**
Study of research and investigation in the areas of educational administration or supervision. Identification of significant findings and areas of needed study. Includes emphasis on selecting and designing a study leading to the specialist project.
- 699 Specialist Project. Four hours. A.**
Prerequisite: EAD 698, EDF 695 and limited to candidates for the Ed.S. program.
Designed to guide the Ed.S. candidate in the development of a scholarly project. May be one of several types: a field project, a creative study, or more formal types of research and inquiry.

Educational Foundations (EDF)

WILLIAM A. McKENNEY, JR., Chairman

The Department of Educational Foundations provides graduate instruction as a service to all degree programs. Foundations courses contribute to that core of common learnings required of all master's degree programs in education and in other related fields.

Course Descriptions

EDF EDUCATIONAL FOUNDATIONS

- 507 Problems in Educational Foundations. One to three hours. A.**
Prerequisite: Approval of advisor and the chairman of the department.
For independent work, special workshops, a special topic, or seminar.
- 526 Applying Research to Classroom Problems. Two hours. I.**
Study and interpretation of recent research for the help it can give in dealing with classroom situations and problems. Class members will be encouraged to focus on situations and problems directly related to their own teaching.
- 615 Human Development. Three hours. I, II.**
Study of the forces which influence personality development and learning, implications for classroom procedures, and the role of the teacher in using these forces to promote learning.
- 632 History of Education in the United States. Three hours. I, II.**
Rise and development of public education in the United States. Sociological, psychological, and scientific movements in education; education reorganization; brief study of the development of public education in Kentucky.
- 636 Philosophy of Education. Three hours. I, II.**
Meaning and scope of philosophy and education; contrasting philosophies and conceptions of education; evaluation and interpretation of present-day issues and problems in education.
- 637 Comparative Education. Three hours. I.**
Study of the development of educational thought and practice in selected nations of Europe, the Orient, and South America. Emphasis will be placed on intellectual, historical and sociological factors.

- 650 Educational Sociology. Three hours. I, II.**
Investigation of the social forces and institutions influencing education. A study of cultural change, social control, social stratification, ethnic patterns, and religion and their effects on the school.
- 669 Research in Education. Three hours. I, II.**
Fundamental principles of educational research, types of research, and the techniques; identifying educational problems; organization and interpretation of data; preparing and evaluating research reports. Required of all candidates for the Master of Arts in Education degree who do not prepare a thesis. Should be taken early in the graduate program.
- 670 Thesis. One to three hours. A.**
Designed for students who are preparing a thesis in partial fulfillment of the requirements for the degree of Master of Arts in Education. If the thesis requirement is waived, EDF 669, Research in Education, is required.
- 695 Advanced Research Methodology. Three hours. I.**
Prerequisite: EDF 669 or its equivalent.
Theories and models of research design in the study of behavior and the educative process; statistical analysis of data. Research proposals may be developed. Required of all students in Specialist in Education degree programs.

Elementary Education (ELE)

WILLIAM A. MORRIS, Chairman

The Department of Elementary Education is primarily responsible for the program advisement and development in the areas of elementary education, elementary education-reading, and elementary education-early childhood. Programs of study may lead to the Master of Arts in Education Degree, the Specialist in Education Degree, and/or Rank II, Rank I, and Reading Specialist certification for elementary teachers. For the teacher certified in another field, a combined degree and certification program is available.

Special Program Requirements*

MASTER OF ARTS IN EDUCATION

Emphasis in Elementary Education—This curriculum is designed to improve the professional competence and skills of teachers in elementary schools. Successful completion of the approved program qualifies the graduate for receipt of the standard elementary teaching certificate.

Professional Education Core 9 hours
Elementary Education Component 9 hours

One course from ELE 668, ELE 671, ELE 673, ELE 675 is required.

Additional electives should be made from departmental offerings as approved by advisor.

Subject Matter or Approved Specialty 12 hours

*Candidates must also meet the general requirements of the Graduate School.

Courses in specialty area or from other disciplines as mutually selected by the student and his advisor.

Elementary Education with emphasis in Reading — Eastern Kentucky University was the first institution in the Commonwealth to implement an organized program for the training of reading teachers. This program meets guidelines for certification as Reading Specialist and for the standard elementary certificate (Rank II).

Professional Education Core	9 hours
Reading Component	12 hours
ELE 671 or 673, 668, 675, 677.	
Subject Matter and/or Elementary Electives	9 hours
Courses mutually selected by the student and his advisor.	

Elementary Education with emphasis in Early Childhood — This program which satisfies requirements for the standard elementary teaching certificate is designed to equip the student for certification and/or leadership in the area of early childhood education.

Plan A — For persons already certified for Kindergarten Teaching	
Professional Education Core	9 hours
Early Childhood Education Component	15 hours
ELE 620, 625, 630, 671, EAD 608.	
Electives	6 hours
Courses mutually selected by the student and his advisor.	

Plan B — For persons not certified for kindergarten teaching	
Professional Education Core	9 hours
Early Childhood Education Component	25 hours
ELE 517, 519, 601, 620, 630, 671, EAD 608.	

SPECIALIST IN EDUCATION

Emphasis in Elementary Education — The curriculum for the Specialist in Education Degree with emphasis in elementary education is designed to meet the needs of curriculum area specialists and regular classroom teachers who seek a high level of knowledge and competency. The degree program, which consists of a minimum of thirty hours beyond the master's degree, fulfills requirements for the Rank I Elementary Teaching Certificate.

Program requirements are:

Two years of successful experience in a certified position prior to formal admission.

Successful completion of admissions procedures and general requirements as specified in the general description for Ed.S. Degree programs.

Completion of Course Requirements.

Core Requirements:

ELE 691 Issues and Trends in Elementary Education	3 hours
EDF 695 Advanced Research Methodolgy	3 hours
ELE 698 Research Design in Elementary Education	2 hours
ELE 699 Specialist Project	4 hours
Total Core	12 hours

One course from either administrative aspects or psychosocial aspects of education.

A minimum of fifteen additional hours at graduate level subject to student needs and committee approval.

Completion of the general requirements for the Specialist in Education Degree as specified in the general description for Ed.S. Degree programs.

For Rank II Certification, the Fifty Year Program — General policies governing the fifth year program leading to Kentucky Rank II certification appear in the general section of the College of Education. Requirements for elementary teachers, by area, appear below in general outline.

For the Candidate who wishes to transfer later to a degree program, appropriate credits will be allowed toward degree requirements.

CURRICULUM FOR ELEMENTARY FIFTH YEAR PROGRAM

Professional Education Core

(Including one graduate level reading course	12 hours
Elementary Education and/or electives as approved by advisor	8 hours
Academically oriented courses as approved by the advisor	12 hours

Course Descriptions

ELE ELEMENTARY EDUCATION

- 507 Problems in Elementary Education. One to three hours. A.**
Prerequisite: Approval of advisor and the chairman of the department.
Independent work, special workshops, special topics, or seminar.
- 517 The Child in Early Education. Three hours. I, II.**
Focuses specifically on physical, social, psychological, and intellectual development of the child under six and role of the kindergarten teaching in working with young children.
- 519 Teaching in the Kindergarten. Three hours. I, II.**
Prerequisite: ELE 517.
Focuses upon the kindergarten movement; organization, equipment, curriculum, and procedures used with children of kindergarten age; leaders and literature of kindergarten education. Opportunity provided for observing and participating in kindergarten.
- 521 Practices and Problems in Early Childhood Education. Four hours. A.**
Designed for experienced teachers. In depth study and application of significant practices and problems in early childhood education.
- 522 Creative Experiences in Childhood Education. Three hours. A.**
Designed for prospective and in-service teachers with focus upon the nature of creativity, development of skills used in creative expression; activities which promote creativeness in children and teachers.
- 530 The Disadvantaged Child and Urban Elementary Education. Three hours. A.**
Exploration of ethnic and family backgrounds, class structure, patterns of living, language characteristics, and teacher-pupil attitudes as they relate to the school experience.
- 531 Teaching the Rural Disadvantaged Child. Three hours. A.**
Characteristics of the rural disadvantaged. Techniques, materials, and organizational patterns designed to benefit the rural disadvantaged student.

ELE ELEMENTARY EDUCATION

- 541 Survey of Elementary Curricular Programs. Three hours. I, II.**
For students in physical education, art, or music seeking certification for grades 1-12. Explores elementary curriculum and the role of special teachers. Examines problems of individual learners, and function of the entire school-community. Not open to elementary education majors.
- 550 Reading and Language Arts in the Elementary School I. Three hours. I, II.**
Prerequisite: EDF 317, admission to Teacher Education Program.
Theory, content, and practice of teaching reading and language arts in the elementary school.
- 551 Linguistics in Elementary Education. Three hours. A.**
Prerequisites: ELE 550 or 671 or 673.
Investigation of elements in the science of linguistics and their application to communication skills of elementary children.
- 560 Reading and Language Arts in the Elementary School II. Three hours. I, II.**
Prerequisite: ELE 550.
Theory, content, and practice of teaching reading and other language arts in the elementary school.
- 601 Practicum in Kindergarten Education. Four hours. I, II.**
Observation and teaching under professional supervision.
- 610 Elementary School Curriculum. Three hours. I, II.**
Study in depth of principles, practices, materials, and procedures in current curriculum development and revision in the elementary school.
- 620 Theory and Philosophy in Early Childhood Education. Three hours. A.**
Survey of contemporary influences in early childhood education with concentration on assumptions and practices in various existing programs.
- 625 Cognitive Development of Young Children. Three hours. A.**
Study of the learning process in the development of young children with emphasis on theories of Piaget. Exploration of activities for facilitating and evaluating cognitive development.
- 630 Expressive Experiences in Early Childhood Education. Three hours. A.**
Creative experiences appropriate for young children in the areas of art, music, drama, games, and movement.
- 663 Social Science in Elementary Education. Three hours. A.**
Emphasis on social science disciplines in the elementary school programs. New developments in social studies curricula are explored.
- 664 Investigations in Language Arts. One to three hours. A.**
For students who desire to make a critical study of the investigative and theoretical literature dealing with the teaching of language arts (listening, spelling, handwriting, oral and written expression) in the elementary school. Research in the teaching of reading is not included.

ELE ELEMENTARY EDUCATION

- 665 Investigations in Reading. One to three hours. II.**
Prerequisite: Approval of the instructor.
Individual research and study of investigative and theoretical literature dealing with the teaching of reading in the elementary school.
- 666 Investigations in Elementary School Mathematics. One to three hours. II.**
For students who desire to make a critical study of investigative and theoretical literature dealing with teaching of mathematics in the elementary school.
- 667 Investigations in the Teaching of Social Studies. One to three hours. A.**
For students who desire to make a critical study of investigative and theoretical literature dealing with teaching social studies.
- 668 Techniques and Materials for Remedial Reading. Three hours. I, II.**
Prerequisite: ELE 675 or permission of instructor.
Methods, materials, and techniques appropriate to the correction of reading difficulties.
- 670 Trends in Elementary Science Education. Three hours. I, II.**
Exploration of modern trends, practices, and foundation programs drawn from appropriate disciplines which relate to elementary and junior high science teaching.
- 671 Readiness and Primary Reading Programs. Three hours. A.**
Intensive study of methods and materials appropriate for developing reading readiness and for guiding reading instruction in grades K-3. Emphasis upon the newer approaches and latest research.
- 672 Mathematics in Elementary Education. Three hours. I, II.**
Exploration of trends, concepts, and issues involved in modern elementary mathematics programs. Research findings are examined and multi-sensory materials presented.
- 673 Developmental Reading in the Elementary School. Three hours. I, II.**
Advanced study of methods, materials, and organizational procedures appropriate for teaching developmental reading in the elementary school.
- 674 Improvement of Language Arts Instruction in the Elementary School. Three hours. A.**
Examination of current trends and curriculum problems related to teaching of language arts in the elementary school. Major emphasis on listening, oral and written expression, spelling and handwriting.
- 675 Diagnosis of Reading Problems. Three hours. A.**
Prerequisite: ELE 673.
Theory and implementation of diagnostic procedures for the appraisal of reading problems. Emphasis on assessing quantity and quality of reading disabilities.
- 676 Investigations in Elementary School Science. One to three hours. A.**
Prerequisite: Approval of the instructor.
Individual research and study of investigative and theoretical literature dealing with the teaching of science in the elementary school.

ELE ELEMENTARY EDUCATION

- 677 Practicum in Remedial Reading. Three hours. A.**
Prerequisite: ELE 668 and ELE 675.
Supervised experiences in diagnosis and correction of reading problems.
- 678 Practicum in Elementary Mathematics Education. Three hours. A.**
Prerequisite: ELE 672.
Practicum experiences in diagnosing children's problems in elementary school mathematics; observation and limited teaching to correct identified problems.
- 691 Issues and Trends in Elementary Education. Three hours. A.**
Prerequisite: Permission of the instructor.
Opportunities provided for participation in exploration and analysis of critical issues relating to elementary education.
- 697 Independent Study. One to three hours. I, II.**
Primarily for advanced graduate students who desire to investigate special problems relating to elementary education.
- 698 Research Design in Elementary Education. Two hours. A.**
Study of research and investigation in the areas of specialization. Examination of experimental and research designs, appropriate laboratory methods. Designing a project.
- 699 Specialist Project. Four hours. A.**
Prerequisite: EDF 695 and ELE 698.
Guided development of a scholarly project appropriate to the student and his field of specialization. The project may be one of several types; a field project, creation of media or instructional instruments, or more formal types of research and inquiry.

Educational Psychology and Counseling (EPY and EPC)

LOLA DOANE, Chairman

The Department of Educational Psychology and Counseling offers graduate programs with specializations for those students who plan to become school counselors, rehabilitation counselors, counselors in community and industrial settings, or student personnel workers in higher education. A program with emphasis in school social work is offered in cooperation with the Department of Anthropology, Sociology, and Social Work. In cooperation with the Graduate School, the Department offers the following graduate degrees and/or programs.

Master of Arts in Education Degree

Elementary School Counseling
Secondary School Counseling
School Social Work

Master of Arts Degree

Industrial and Community Services Counseling
Rehabilitation Counseling (option)
Student Personnel Services in Higher Education

Certification Programs

Standard Pupil Personnel Certification
Rank I (Sixth Year Non-degree Program)
School Social Work

Specialist in Education Degree
School Counseling
Student Personnel Services in Higher Education

Special Program Requirements*

MASTER OF ARTS IN EDUCATION DEGREE

The Master of Arts in Education Degree with emphasis in counseling is required for provisional certification in elementary or secondary school counseling. The provisional certificate for school counselors shall be issued for a period of five years and may be renewed upon the completion of a minimum of eight semester hours of graduate credit every five years from a program leading to the standard guidance certificate. Applicants for certification should have had one year of teaching experience or one year of supervised internship in the school setting for which the individual plans to seek certification as a counselor.

Elementary School Counseling

Persons with undergraduate preparation in elementary education are eligible to major in elementary school counseling at Eastern Kentucky University. The typical course of study is outlined below:

PROFESSIONAL CORE COURSES

EPY 616 and EDF 669 are required; an additional three hours are required from either the area of historical and philosophical foundations of education or the area of curriculum and instructional methods.

COUNSELING AREA

EPC 613, 620, 625, 632, 640, EPY 642, EPC 602 or 646. Minimum of 21 hours.

ELECTIVES

EPC 602, 614, 622, 646, EPY 624, 654. Minimum of three hours. Course sequencing — First enrollment(s): EDF 669, EPC 613, EPY 616. Prior to enrollment in a practicum course, the student should have completed a minimum of 20 semester hours in the graduate program.

SECONDARY SCHOOL COUNSELING

Persons with undergraduate preparation in secondary education are eligible to major in secondary school counseling at Eastern Kentucky University. The typical course of study is outlined below:

PROFESSIONAL CORE COURSES

EPY 616 and EDF 669 are required; an additional three hours are required from either the area of historical and philosophical foundations of education or the area of curriculum and instructional methods.

COUNSELING AREA

EPC 613, 620, 622, 630, 640, EPY 642, EPC 602 or 646. Minimum of 21 hours.

ELECTIVES

EPY 555, 624, 643, 654, EPC 602, 614, 646. Course sequencing — First

*General requirements of the Graduate School must also be met.

enrollment(s): EDF 669, EPC 613, EPY 616. Prior to enrollment in a practicum course, the student should have completed a minimum of 20 semester hours in the graduate program.

Minimum of 3 hours.

SCHOOL SOCIAL WORK

The Master of Arts in Education Degree with emphasis in school social work is offered cooperatively with the Department of Anthropology and Sociology. Teaching certification is prerequisite or corequisite for admission to the program.

CURRICULUM FOR THE SCHOOL SOCIAL WORK PROGRAM **PROFESSIONAL CORE COURSES**

EAD 605, EPC 613, EPY 652, EDF 669 and three hours from the following: EDF 632, 636, 637, ELE 610, ESH 612, 663. Minimum of 15 hours.

SOCIAL WORK AREA

SWK 500, 502, 505, 607, 608. Minimum of 15 hours.

ELECTIVES

EPY 504, EPC 620, EPY 616, EPC 640

Provisional certification in school social work may be attained by completing fifteen hours from the Social Work Area and EPC 613. Minimum of 3 hours.

MASTER OF ARTS DEGREE

Industrial and Community Services Counseling

Completion of this program leads to the Master of Arts Degree. This degree does not require teacher certification. This program is designed to prepare guidance workers for service in a variety of settings such as rehabilitation and state employment agencies, clinics and community counseling agencies, business and industry, federal programs, sheltered workshops, social welfare agencies, and community employment and training projects.

REQUIRED COURSES

EPY 504, EPC 640, EDF 669, EPC 613, 602, 620, 636, EPY 616, EPC 622 or EPY 555. Minimum of 27 hours.

ELECTIVES

EPY 652, 624, 504, MGT 500. Minimum of 6 hours. Electives should be chosen to meet special areas of professional interest.

Course sequencing — First enrollment(s): EDF 669, EPC 613, EPY 616. Prior to enrollment in a practicum course, the student should have completed a minimum of 20 semester hours in the graduate program.

Option in Rehabilitation Counseling

Persons preparing to work in rehabilitation counseling may elect the following option on the Master of Arts Degree in Industrial and Community Services Counseling. Prerequisites for this program include the following: (1) undergraduate major or minor in rehabilitation, or (2) completion of the following two courses: (a) RHB 500 (formerly RHB 402) — Mental Disabilities and Behavior Disorders and (b) RHB 509 — Biomedical Aspects of Exceptionality.

REQUIRED COURSES

EDF 669, SED 602, EPY 616, RHB 617, EPC 620, 636, 640, 646, EPY 555,

SED 686. Minimum of 30 hours.

ELECTIVES

MGT 500, SWK 607, REC 620, SED 541, EPY 642, RHB 510, EPC 602. Minimum of 3 hours.

Student Personnel Services in Higher Education

Completion of this program leads to the Master of Arts Degree. The degree does not require teacher certification. This program is designed to prepare persons interested in various guidance and counseling functions inherent to institutions of higher education, i.e., the technical school, junior college, or college.

REQUIRED COURSES

EPC 640, EPY 616, EDF 669, EHE 690 or 695. EPC 613, 620, 622, 634, 644, 645. Minimum of 30 hours.

ELECTIVES

EPC 602, 646, EPY 504, 642, 654, ESH 691

SPECIALIST IN EDUCATION

Student Personnel Services in Higher Education

Approximately thirty graduate hours are required beyond the master's degree for those with the master's degree in student personnel services. Persons with master's degrees in other disciplines will need to complete requirements for the master's degree in student personnel services.

PROFESSIONAL CORE COURSES

EPC 691, EDF 695, EPY 698, 699. Minimum of 12 hours.

COUNSELING AREA

EPY 642, EPC 651, EPY 643. Minimum of 9 hours.

ELECTIVES

ESE 697, MGT 500, PSY 622, 500, POL 630, EPY 504. Minimum of 9 hours.

SCHOOL COUNSELING

A program of approximately thirty hours beyond the master's degree is designed to provide depth in counseling content for the prospective or practicing school counselor. Persons with master's degrees in other disciplines must complete all requirements at the master's degree level in Elementary School Counseling or Secondary School Counseling.

PROFESSIONAL CORE COURSES

EPC 691, EDF 695, EPY 698, 699. Minimum of 12 hours.

COUNSELING AREA

EPY 654, EPC 647 or 649, EPY 643, EPC 614. Minimum of 12 hours.

ELECTIVES

SED 522, LIB 569, EPY 504, PSY 622. Minimum of 6 hours.

CERTIFICATION PROGRAMS

For the Standard Pupil Personnel Certificate

Persons interested in certification as directors of pupil personnel must

complete the requirements for the standard certificate. The master's degree is prerequisite to admission to the program. Candidates may have completed the program for school counselors or in an appropriate teaching field. Candidates for the certificate must hold the standard teaching certificate as a prerequisite to eligibility for institutional endorsement for the pupil personnel certificate.

CURRICULUM FOR THE PUPIL PERSONNEL PROGRAM

FOR PERSONS HOLDING THE STANDARD TEACHING CERTIFICATE

EPC 608, 613, SED 521, EPY 504, EPC 614, EPY 616. Minimum of 18 hours.

FOR PERSONS HOLDING THE PROVISIONAL GUIDANCE CERTIFICATE

EPC 608, SED 521, EPY 504, EAD 601, EAD 605. Minimum of 15 hours.

ELECTIVES

EPC 602, ACC 500, EDP 504. Minimum of 3 hours.

For the Standard Guidance Certificate (Rank I)

One year of full-time counseling with the provisional guidance certificate and an acceptable program of study at the sixth year level is prerequisite to endorsement of the standard guidance certificate.

PROFESSIONAL CORE COURSES

EPC 614, 602 or 646, 647 or 649, EPY 643, 654. Minimum of 15 hours.

ELECTIVES

PSY 622, EPC 691, EAD 611, EPY 504, EAD 605, MGT 500, POL 530 — Other electives as needed for the individual's program may be selected with consent of the advisor. Minimum of 15 hours.

Course Descriptions

EPY EDUCATIONAL PSYCHOLOGY

- 504 Psychology of Individual Differences. Three hours. A.**
Prerequisites: Undergraduate psychology course or approval of instructor.
Study and application of the facts of human variability, including differences in such areas as age, sex, class, intelligence and achievement.
- 507 Problems in Educational Psychology and Guidance. One to three hours. A.**
Prerequisite: Approval of the advisor and chairman of the department. Approval of instructor.
Independent investigation of a research problem, or directed readings, in a selected area of study chosen in consultation with the instructor.
- 555 Vocational Development and Adjustment. Three hours. II.**
Comprehensive coverage of the application of psychological principles to personnel selection, training, placement, and evaluation; motivation, interaction, and morale; and effective human relations in business, industry, and community agencies.

EPY EDUCATIONAL PSYCHOLOGY

- 616 Tests and Measurements. Three hours. I, II.**
Study of the concepts, principles and methods involved in the use of current tests and inventories. Emphases on measurement theory underlying construction, use, and interpretation of data from standardized tests.
- 623 Educational Implications of Learning Theories. Three hours. A.**
Prerequisite: One course in psychology.
Examination of major theories of learning.
- 624 Individual Appraisal of Intelligence. Three hours. A.**
Prerequisite: EPY 616 or statistics course.
Consideration of the fundamental theories of intelligence. Practicum training, by arrangement, in administration and interpretation of the Stanford-Binet and Wechsler Scales.
- 642 Statistical Methods I. Three hours. I.**
Introduction to the techniques appropriate for the treatment of educational and psychological data. Use and interpretation of descriptive statistical methods. Correlational analysis, sampling distributions, tests of significance, problems of estimation and procedures in testing statistical hypotheses.
- 643 Statistical Methods II. Three hours. II.**
Prerequisite: Approval of instructor.
Use and interpretation of multi-sample inferential statistics. Analysis of variance, co-variance, factorial designs, multiple regression, and nonparametric techniques.
- 652 Advanced Educational Psychology. Three hours. A.**
Prerequisite: Approval of instructor.
Basic problems of biological and environmental factors are reviewed and the principles of motivation and learning are emphasized.
- 654 Mental Health and Personal Adjustment. Three hours. II.**
Prerequisite: Approval of instructor.
Study of the personal and social factors related to the development of individual mental health and mental illness.
- 698 Research Design in Counseling. Two hours. II.**
Prerequisite: Approval of chairman of the department.
Research methodologies in counseling. Emphasis is on the research design and analysis of accumulated data.
- 699 Specialist Project. Four hours. II.**
Prerequisite: EPY 642, 698, EDF 695 and approval of the chairman of the department.
Independent research for the Specialist degree. Application for writing this research project must be completed on an appropriate form after consultation with the major professor and the chairman of the department.

EPC COUNSELING

- 602 Counseling Psychology. Three hours. II.**
Prerequisite: One course in psychology.
Examination of counseling methods and concepts with emphasis on current systems of counseling.

EPC COUNSELING

- 608 Administration of Pupil Personnel Services. Three hours. A.**
Prerequisite: Approval of instructor.
Administrative problems relating to child accounting. Major areas emphasized will be attendance reports and records, school census, duties and responsibilities of school officials and non-school personnel and agencies, and social and economic factors influencing school attendance.
- 613 Introduction to Counseling. Three hours. I, II.**
Sociological, psychological, philosophical and educational foundations of pupil personnel services; history and growth of the guidance movement; function, scope, and organization of guidance.
- 614 Organization and Administration of Guidance Services. Three hours. I, II.**
Prerequisite: EPC 613.
Consideration of the theory, organization, and personnel practices involved in organizing and administering guidance programs.
- 620 Group Processes. Three hours. I, II.**
Psychology of groups, including social influence, leadership, and inter-and intra-group behavior.
- 622 Occupational and Educational Information. Three hours. I.**
Occupational information in educational and vocational planning; theories of vocational choice; sociology of occupations, and interpretation and utilization of current data pertaining to career fields.
- 625 Elementary School Guidance. Three hours. II.**
Guidance practices for the elementary counselor, teacher, and other personnel, as derived from principles of child development.
- 630 Counseling Practicum in the Secondary Schools. Three hours. I.**
Prerequisite: Minimum of 20 hours including EPC 613, 640, and approval of instructor.
Practicum student will be assigned, under supervision, to counseling experiences with secondary school students in a secondary school setting.
- 632 Counseling Practicum in the Elementary School. Three hours. I.**
Prerequisite: Minimum of 20 hours including EPC 613, 640, and approval of instructor.
Practicum student will be assigned, under supervision, to counseling experiences with elementary school students in an elementary school setting.
- 634 Counseling Practicum in Higher Education. Three hours. II.**
Prerequisite: EPC 640, 644, and approval of instructor.
Practicum student will assist with testing programs, record keeping, and counseling college students; may also be assigned as resident counselor or as student activities counselor.
- 636 Counseling Practicum in Community Settings. Three hours. II.**
Prerequisite: EPC 640.
Practicum student will be assigned, under supervision, to counseling experiences in industry, public agency, social welfare center, or other institutional settings.
- 640 Counseling Theory and Practice. Three hours. I.**
Major theories of counseling. Attention is given to personality structure and individual behavior from which these are derived.

EPC COUNSELING

- 644 Student Personnel Services in Higher Education. Three hours. I.**
Study of student personnel services; emphasis upon relationship of these services to the total college program, research and organization.
- 645 Internship in Student Personnel Services. Three hours. II.**
Prerequisite: EPC 644.
Supervised experience for student personnel trainees. Opportunity provided to share responsibilities for all phases of student personnel services.
- 646 Techniques of Counseling. Three hours. A.**
Includes a consideration of different schools of thought in current counseling practice; how the counselor works; and effective procedures for counseling.
- 647 Advanced Counseling Practicum in Elementary Schools. Three hours. I.**
Prerequisite: EPC 632.
Supervised practice in counseling with emphasis upon evaluation of counseling with elementary school students.
- 649 Advanced Counseling Practicum in Secondary Schools. Three hours. I.**
Prerequisite: EPC 630.
Supervised practice in counseling with emphasis upon evaluation of counseling interviews with secondary school students.
- 651 Advanced Counseling Practicum in Higher Education. Three hours. II.**
Prerequisite: EPC 634.
Supervised practice in counseling with emphasis upon evaluation of counseling with college students.
- 691 Issues and Trends in Counseling. Three hours. I.**
Critical examination of current issues and developing trends in counseling research.

Library Science (LIB)**JUANITA PHILLIPS, Chairman**

The Department of Library Science is responsible for program advisement and development leading to the Master of Arts in Education Degree with emphasis in library science and Rank II programs for elementary and secondary school librarians.

New guidelines for school library certification are now being considered by the State Board of Education. If new guidelines are accepted, changes will be made in the program as outlined in this catalog. Students enrolling in the fall of 1975 should counsel with the Chairman of the Department of Library Science.

MASTER OF ARTS IN EDUCATION DEGREE CURRICULUM

Prerequisite: LIB 301

PROFESSIONAL EDUCATION CORE:

EDF 669; six hours chosen from two of the following categories:

EDF 632, 636, 637; EDF 615, EPY 616, 650, 652;

ELE 610, ESE 612, 663 9 hours

LIBRARY SCIENCE CORE:

LIB 500, 501, 521, 531, 569, 601	18 hours
ELECTIVES	3 hours
TOTAL CURRICULUM REQUIREMENTS	30 hours

CERTIFICATION PROGRAMS**Rank II Certification, the Fifth Year Program****PROFESSIONAL EDUCATION CORE:**

Six hours with at least one course chosen from two of the following categories:

EDF 632, 636, 637; EDF 615, 650, EPY 616, 652; ELE 610, ESE 612, 663; six additional hours of professional education	12 hours
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LIBRARY SCIENCE CORE:

LIB 301, 500, 501, 521, 531, 601	15-18 hours
ELECTIVES	3-6 hours
TOTAL CURRICULUM REQUIREMENTS	33 hours

Rank I Certification, the Sixth Year Program

Individuals without prior work in library science who hold the standard teaching certificate may earn the Rank I certificate and elementary or secondary librarianship certification concurrently. Students interested in the Standard Certificate in library science may be able to complete requirements in conjunction with a Rank I teaching program.

Prerequisite for all programs: Certification in Elementary Education or a secondary teaching field.

Note: Students with elementary education certification must complete the course ELE 673 (Developmental Reading in the Elementary School). The certificate for elementary librarianship may be validated for the twelve-grade librarianship upon completion of ESE 663 (Secondary School Curriculum). The certificate for secondary librarianship may be validated for twelve-grade librarianship upon completion of ELE 541 or ELE 610 and ELE 550 or ELE 673.

Course Descriptions

LIB LIBRARY SCIENCE**500 Organization and Administration of the School Media Center.**

Three hours. I.

Prerequisite: Admission to the Teacher Education program.

Philosophy, objectives and administration of the media center in the elementary and secondary schools.

501 Young People's Literature. Three hours. I, II.

For teachers and librarians planning to work with young people. Emphasis placed on library materials to supplement school curriculum and encourage recreational reading in grades 7-12. Stresses reading interests, levels, and needs of young people, including adult materials suitable for mature students.

LIB LIBRARY SCIENCE

- 511 Non-Book Instructional Materials. Three hours. I.**
Selection, organization, and utilization of non-book instructional materials in school media centers.
- 521 Reference. Three hours. II.**
Provides information for satisfactory use of library resources. Stresses essential reference work including dictionaries, encyclopedias, atlases, yearbooks, periodical indexes, and the more important subject and trade bibliographies.
- 531 Classification and Cataloging. Three hours. I.**
Fundamental principles and methods of classification and cataloging of books and related materials. Attention is centered on the classification and cataloging of books for school media centers.
- 551 Reading Interests and Advanced Book Selection. Three hours. I.**
Role of reading in the educative process; reading habits and interests of groups and individuals; selection of readable materials. Methods of working with children and young adults in the school media center; study in depth of titles suitable for children and young adults.
- 563 Preparation of Instructional Media. Three hours. II.**
Selection and preparation of free and inexpensive materials; displays, graphics, models, bulletin-board utilization, mounting and preserving of materials.
- 569 Instructional Media. Three hours. I, II.**
Philosophy and techniques of the effective utilization of instructional media. Emphasis is on slides, tape and disc recordings, films, filmstrips, transparencies, and the operation of equipment for presenting such media.
- 601 School Library Practicum. Three hours. I, II.**
Practicum for graduate students offering practical experience in many phases of school library service. Circulation routines, reference materials, cataloging of new books and materials, reading guidance, story telling, and the organization of unit materials are stressed.
- 605 Advanced Children's Literature. Three hours. A.**
Prerequisite: LIB 301 or comparable course.
Advanced course to consider the characteristics of good reading for children; the types and evaluation of the literature; the methods of guidance and use of books and materials for curricular and leisure needs; the correlation of book and non-book materials. For librarians and teachers.
- 607 Problems in Library Science. One to three hours. A.**
Prerequisite: Approval of advisor and chairman of the department.
Designed for graduate students who wish to do independent study on a problem in library science, or who wish to enroll in a special workshop or seminar focusing on a particular topic.
- 609 History of Books. Three hours. A.**
Considers the records of early man, invention of the alphabet, manuscript books, and the making of books from earliest times to the present. Acquaints the student with the techniques and standards for the appraisal of the physical book.

Secondary and Higher Education (ESE, EHE, EAE)

JOE WISE, Chairman

The Department of Secondary and Higher Education provides graduate level offerings in curriculum development, higher education, adult education and the Master of Arts in Education degree with emphasis in general science and secondary reading. The Department cooperates with other academic departments in providing programs toward the Master of Arts in Education Degree with emphasis in the subject matter field and non-degree fifth and sixth year programs for secondary teachers.

MASTER OF ARTS IN EDUCATION DEGREE

Curriculum in General Science:

General Information — The Departments of Biology, Chemistry, Geology, and Physics, in cooperation with the College of Education, offer the Master of Arts in Education Degree with emphasis in General Science. This degree is designed primarily for teachers of non-specialized science courses such as general science, life science, earth science and physical science. The program is intended to broaden the scientific background of the non-specialized science teacher and to help science teachers in all disciplines develop an ability to keep their teaching current — to recognize and introduce relevant new topics and discoveries as these become important and to adapt their teaching to the particular needs of the students and communities they will serve. This degree satisfies the requirements for standard certification but will not complete certification requirements in biology, chemistry, earth science or physics; however, courses taken may be applied toward such certification.

Admission — General requirements for the Master of Arts in Education must be met. The applicant should also be certified in at least one nonspecialized science.

Program — A total of twenty-one hours must be taken in courses from biology, chemistry, earth science or physics. Nine hours must be taken in professional education. Courses must be selected with approval of the student's committee which will be composed of one member of each science and one member from the College of Education. Emphasis of each student's program must be directed toward a balance in the four science areas. Courses chosen may be selected from the following:

Biology: BIO 597, 598, 599, 601, 602, 609, 610, 611, 616, 647. **Chemistry:** CHE 511, 512, 613, 645. **Education:** EDF 669 (must be taken prior to the completion of nine hours) and one course from two of the following three areas: **Area I** — EDF 632, 636, 637. **Area II** — EDF 615, 650; EPY 616, 652. **Area III** — ESE 612, 663. **Geology:** GLY 501, 601. **Physics:** PHY 609, 610, 611.

Other graduate courses from these departments may also be chosen. There is no thesis or language requirement. A final oral or written examination will be required.

CURRICULUM FOR SECONDARY READING PROGRAM

Professional Education Core 9 hours
Reading Component 12 hours

ESE 574, ELE 668, 675, 665 or 677

Academic Electives 9 hours

(Electives in the academic areas should be in the fields related to reading, such as speech, psychology, library science, and English. Recommended courses

include but are not limited to those listed below.) LIB 501, 569, PSY 504, ENG 504, 540, 541.

Course Descriptions

ESE SECONDARY EDUCATION

- 501 The Junior High School. Two hours. A.**
Origin, development, and present status of the junior high school movement; its place in the public school system; aims, purposes, and objectives; evaluation of types of programs; the junior high school plant; library, apparatus, and equipment.
- 507 Problems in Secondary Education. One to three hours. A.**
Prerequisite: Approval of advisor and the chairman of the department.
Independent work, special workshops, special topic, or seminar.
- 574 Teaching Reading in the Secondary School. Three hours. A.**
Prerequisite: EDF 317 and admission to Teacher Education Program. Assists the secondary teacher in teaching reading in the content areas. Includes emphasis on developmental reading, reading skills, (vocabulary development, critical reading, concentration, and study techniques). Appraisal of reading abilities, appropriate materials, evaluation, and organization of secondary reading programs.
- 612 Curriculum Theory and Development. Three hours. II.**
Critical study of issues and problems in curriculum development, the rationale underlying major positions of these issues, implications for work at various levels of the educational program, and principles and techniques of curriculum change.
- 641 Advanced Materials and Methods for Modern Biology Teaching. Three hours. A.**
Formerly ESE 575.
Materials and methods of teaching modern biological science at the secondary level. Application of modern learning theories and psychological foundations with their implications for modern science curricula.
- 649 Trends and Materials in Social Studies. Three hours. A.**
Designed to broaden the horizons of secondary social studies teachers. Attention focused on new curriculum materials, simulation videotaped microteaching. Participants will be actively involved and consultants will assist in areas of particular interest.
- 663 Secondary School Curriculum. Three hours. II.**
Aims of the public secondary schools; plans for evaluating curriculum procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency.

EHE HIGHER EDUCATION

- 680 Organization and Supervision of Student Teaching. Three hours. I.**
Prerequisite: Teaching experience.
For school and college personnel concerned with improving student teaching experiences.
- 690 College Teaching. Three hours. II.**
For students who are teachers or prospective teachers in college. Attention given to knowing students as individuals and class groups, planning courses, practical problems of selecting and guiding learning experiences, using varied instructional media, evaluating student progress.

- 691 The Community Junior College. Three hours. A.**
Designed for the prospective or in-service junior college teachers or administrators. Attention will be given to the philosophy, objectives, organization, and operation of community junior colleges. Stress placed on the unique role of the junior colleges.
- 695 Perspectives in Higher Education. Three hours. I.**
Origins, evolution, and trends in post-secondary education; the technical school, the junior college movement; the role of public and private colleges and universities in American education. Stress placed upon the sociology of higher education.
- 697 Curriculum in Higher Education. Three hours. II.**
Issues, trends, and principles in curriculum development in higher education; the nature, place, and interrelationship of general education and work in fields of specialization. Opportunity for students to observe and appraise innovative practices, and to project programs.
- 698 Seminar in College Teaching. One hour. I, II.**
Topics in higher education. A research paper is required one semester. May be taken concurrently with EHE 699.
- 699 Practicum in Higher Education. Three hours. I, II.**
Supervised teaching in an acceptable post-secondary school or college.
- 507 Problems in Adult Education. One to three hours. A.**
Prerequisite: Approval of advisor and chairman of the department. Independent work, special workshops, special topic, or seminar.
- 512 Organization and Administration of Adult Education. Three hours. A.**
Organizing, financing, staffing, promoting, and evaluating programs of adult education. Teaching-learning resources and the role of the adult education administrator.
- 514 Teaching in Adult Education. Three hours. A.**
Major problems of teaching procedures and materials appropriate to the adult learner.

Special Education and Rehabilitation (SED and RHB)

WIETSE de HOOP, Chairman

The Department of Special Education and Rehabilitation offers a program leading to the Master of Arts in Education Degree in special education for teachers of mentally retarded children and children with behavior disorders and learning disabilities. Certification programs include supervision of special education, Rank II equivalency, Rank I equivalency (teaching) and Rank I diagnosis and evaluation.

CURRICULA

Degree programs have been planned for three discrete populations: students with a major in elementary education and a minor in special education at the

undergraduate level will pursue Plan I; students without undergraduate preparation in special education should pursue Plan II; students with undergraduate preparation in secondary education and without prior preparation in special education should follow Plan III. Teacher certification is a co-requisite or prerequisite in all cases.

Plan I. Students with sufficient undergraduate preparation in special education.

Professional Education Core 9 hours

Special Education Core

*SED 541, SED 602, SED 631, SED 632, SED 68512-15 hours

Electives6-9 hours

*Exempt, if taken in undergraduate program.

Plan II. B.S. in Elementary Education — no undergraduate preparation in Special Education.

Professional Core, Same as Plan I.

Special Education Core, Same as Plan I.

Prerequisites: Completion of Rank III Equivalency Certification requirements prior to admission to the MA Ed. program as follows:

Teaching EMR Children: SED 602, 560, 521, 541, 534 and 601.

Teaching TMR Children: SED 602, 560, 521, 541, 535, and 601.

Teaching LD and/or BD Children: SED 602, 560, 522, 523, 536 and 601 (in certification area).

Plan III. B.S. in Secondary Education, no undergraduate preparation in Elementary and Special Education.

Professional Core, Special Education Core and Prerequired Rank III Equivalency

Certification: Same as Plan II.

Additional prerequisites in Elementary Education12 hours

Teachers of the Mentally Retarded: ELE 672, 673, 674; one of the following:
ELE 522, LIB 569, PHE 521 or REC 511.

CERTIFICATION CURRICULA

Supervision of Special Education.

Prerequisites: M.A.Ed., Special Education Certificate (Provisional or Standard), and two years successful experience as a special education teacher or a public school speech and hearing teacher.

Required Coursework — 18-21 sem. hrs. of the following:

EAD 600, 603, 605, SED 615, 61615 hours

SED 560 (not required if undergraduate certification was in
speech and hearing) 3 hours

Restricted Electives: RHB 509, SED 521, 522, 523 3 hours

Rank II.

*Prerequisites for all Candidates:

9 semester hours from: SED 521, 522, 523, 560 and RHB 509.

Professional Core

(see appropriate pages in Graduate Catalog) 6 hours

Professional Education Courses

approved by the College of Education 6 hours

Special Education Courses(Must include SED 534, 535 or 536, and SED 541, if not taken
prior to entering the Rank II program, and SED 601 if and
when required for certification) 12 hours

Electives 8 hours

TOTAL 32 hours**Rank I. (Teaching)**

Curriculum for students not having prior preparation in Special Education.

Prerequisite: Professional Core

(exempt if completed for M.A. in Ed.) 6 hours

Rank III Equivalency Courses Appropriate to the

Desired Certification in Special Education 18 hours

SED 610, 631, 632 9 hours

Restricted Electives 3 hours

TOTAL 30-36 hours**Rank I. (Teaching)**

Combinations of the M.A. in Ed. and Rank I Curricula

Combination 1

M.A. Ed., Plan I 30 hours

SED and RHB Courses Approved by Advisor 15 hours

Electives 15 hours

TOTAL 60 hours**Combination 2**

M.A. Ed., Plan 2 36 hours

SED and RHB Courses Approved by Advisor 15 hours

Electives 9 hours

TOTAL 60 hours**Combination 3**

M.A. Ed., Plan 3 48 hours

SED, RHB or Other Courses Approved by Advisor 12 hours

TOTAL 60 hours**Rank I. (Diagnosis and Evaluation)**This specialized program intends to prepare experienced individuals in
identification, diagnosis, evaluation and educational prescription for excep-
tional children.

Admission requirements:

1. M.A. in Education, Guidance and Counseling or Reading, or an M.A. in School Psychology;
2. Satisfactory experience.

Program (unless completed earlier):

Special Education

SED 521, 522, 523, 602, 625, 631 or 632, 686, RHB 50924 hours

Reading

ELE 668, 671 or 673, 675 9 hours

Educational Psychology and Counseling

EPY 616, 623, 624, 64312 hours

Electives

TOTAL30-45 hours

Course Descriptions

SED SPECIAL EDUCATION

- 507 Problems in Special Education. One to three hours. A.**
Prerequisite: Approval of advisor and the chairman of the department.
School-related work, special workshops, special seminars.
- 521 Mentally Retarded Children. Three hours. I.**
Prerequisite: SED 345 or approval of instructor.
Mental retardation as an educational, psychological, and social problem.
- 522 Behaviorally Disordered and Socially Deviant Children. Three hours. I.**
Prerequisite: SED 345 or approval of instructor.
Definition and description of behavior disorders in childhood including a study of major theoretical bases for child therapy. Concurrent laboratory experiences with individual child therapy and development of case study.
- 523 Learning Disabilities in Children. Three hours. II.**
Prerequisites: SED 345, SED 360, or approval of instructor.
Definition, description and assessment of learning disabilities in childhood, with an emphasis on current theoretical bases for selecting teaching methods and materials.
- 534 Teaching the Educable Mentally Retarded. Three hours. II.**
Prerequisites: SED 521, and Admission to Teacher Education.
Curriculum, methods and materials for teachers of the mildly retarded with emphasis on individual and small group tutoring. Two lecture and two laboratory hours.
- 535 Teaching the Trainable Mentally Retarded. Three hours. II.**
Prerequisite: SED 521 and Admission to Teacher Education.
Same as SED 534 except for teachers of the severely retarded.
- 536 Teaching Children with Behavior and Learning Disabilities. Three hours. II.**
Prerequisites: SED 522, 523 and Admission to Teacher Education.
Academic remediation and therapy for children with behavior and learning disabilities. Laboratory experiences will consist of individual and small group tutoring. Two lecture and two laboratory hours.

SED SPECIAL EDUCATION

- 541 Behavior Modification of Exceptional Children. Three hours. I.**
Directive and non-directive techniques used in educating exceptional children, with emphasis on operant conditioning. Two lecture and two laboratory hours.
- 560 Speech Problems and the Teacher. Three hours. A.**
CL SPE 560.
Acquaints the classroom teacher with the basic types of speech defects, his role and responsibilities, and sources of referral.
- 565 Seminar: Language Disorders. Three hours. A.**
Prerequisite: SED 360 and 476, and approval of instructor.
Study of language impairment and principles of remediation.
- 570 Directed Study in Speech Pathology. One to three hours. A.**
Directed projects in speech pathology. Proposal for the project must be submitted one semester in advance. Departmental permission is required.
- 580 Directed Study in Audiology. One to three hours. A.**
Directed projects in audiology. Proposal for the project must be submitted one semester in advance. Departmental permission is required.
- 587 Aural Rehabilitation. Three hours. I.**
Prerequisite: SED 485.
Theory and procedures of speech reading, auditory training and speech improvement.
- 601 Practicum in Special Education. Three hours. A.**
Practicum for graduate students who seek certification in an area in special education.
- 602 Psychological Aspects of Exceptional Children. Three hours. I.**
Selected psychological aspects of exceptionality. Emphasis is on aspects relevant to the teacher training programs offered. Students select two major related aspects acceptable to the major professor.
- 610 Ecology of the Special Classroom. Three hours. A.**
Organization of the special classroom. Dyadic interaction as the basis for individualized instruction. Group information, leaderships, monitoring of teacher and student behaviors as instruments of change. Prosthetic and responsive environments.
- 615 Organization and Administration of Special Education. Three hours. A.**
Prerequisite: EAD 600 or approval of instructor.
Administration as a catalyst in special education. Community, state and federal agencies concerned with services for exceptional children. Legal provisions for Special Education in Kentucky. Organizing special educational services in school systems.
- 616 Supervision of Special Education. Three hours. A.**
Prerequisites: EAD 600 or approval of instructor.
Techniques of supervising and evaluating special educational services in educational settings. The special educational curriculum as related to the total public school curriculum. Utilization of community resources for special educational purposes.
- 625 Psycho-Educational Diagnosis of Exceptional Children. Three hours. A.**
Prerequisite: EPY 624.
Identification and psycho-educational diagnosis as the foundation for an educational plan for exceptional children. Students will complete psycho-educational diagnosis in each of the areas of exceptionality.

SED SPECIAL EDUCATION

- 631 Case Studies I: Mental Retardation. Three hours. I.**
Methods of identification, diagnosis and characteristics. Behavioral management in the total educational setting, teaching methods and materials. The total program of studies, organized into detail, is in the form of case studies performed by the student.
- 632 Case Studies II. Behavioral Disorders and Learning Disabilities. Three hours. II.**
Course description same as SED 631.
- 685 Independent Project. Three hours. A.**
Study of some topic which is of interest to the student and to his major professor and which is of importance to special education in the geographic area, or in general. Topic must provide for considerable investigation and study.
- 686 Seminar in Special Education and Rehabilitation. Three hours. A.**
Critical study of research literature on education and rehabilitation of exceptional individuals. Restricted to students in Rank I curriculums in special education and graduate students in rehabilitation curriculums.
- 690 Foundations of Special Education. Three hours. A.**
Study of the defining characteristics of special education and its place in the total of American Education and Society.

RHB REHABILITATION

- 500 Mental Disabilities and Behavior Disorders: Implications for Rehabilitation. Three hours. II.**
Formerly RHB 402.
Prerequisites: PSY 308, RHB 300 or approval of instructor.
Survey of various mental disabilities and behavior disorders which entitle an individual to rehabilitation services. Rehabilitation professionals' work in mental hospitals, institutions for delinquent and penal institutions is emphasized. Problems of readjustment in home and community, and employment possibilities are discussed.
- 501 The Rehabilitation Counselor. Three hours. I.**
Prerequisites: RHB 300, RHB 500, RHB 509.
Opportunities for observing rehabilitation settings and talking with rehabilitation professionals will be provided. Government agencies and private programs at the local, state and federal level are studied.
- 503 Public and Private Agencies and Services. Three hours. II.**
Prerequisites: RHB 300, RHB 500, RHB 509.
Study of national, state and community agencies which provide services to handicapped individuals.
- 509 Bio-Medical Aspects of Exceptionality. Three hours. I.**
Formerly RHB 401 and SED 611.
Prerequisites: BIO 171 and BIO 301 or approval of instructor.
Bio-medical aspects of physical conditions and diseases which are pertinent to special educators, rehabilitation counselors and other educational personnel.

RHB REHABILITATION

- 510 Practicum in Rehabilitation Education. Twelve hours. II.**
 Formerly RHB 502.
 Prerequisite: Completion of Rehabilitation coursework and approval of the instructor.
 Supervised field experiences in rehabilitation. Rehabilitation majors are placed in a field situation of their choice to work under the direct supervision of a rehabilitation counselor or professional worker. Departmental seminar and individual conferences are held weekly to support and evaluate the field experiences.
- 617 Evaluating the Handicapped Individual. Three hours. A.**
 Prerequisite: EPY 616.
 A study of the devices and procedures used by rehabilitation professionals to assess the ability and potential of handicapped individuals.

School of Health, Physical Education, Recreation and Athletics

Ned L. Warren, Dean

The School of Health, Physical Education, Recreation, and Athletics is primarily responsible for advisement and program development for the following programs: Master of Arts in Education with emphasis in physical education and in school health education; Master of Science programs in physical education and in recreation and park administration; Specialist in Education programs in physical education; Rank II (fifth-year non-degree) programs in school health (education) and in physical education; and Rank I (sixth year non-degree) programs in physical education.

School Health Education (HEA)

HERMAN BUSH, Chairman

Increasing concern with the general state of knowledge in the area of health has furnished the impetus for this graduate program in health for teachers. Provision is made for the student with an undergraduate minor preparation in school health education.

MASTER OF ARTS IN EDUCATION

Curriculum for Master of Arts in Education with an emphasis in School Health Education

Plan I

(Assumes at least a minor in school health education.)

Professional Education	9 hours
School Health Education Core (HEA 500, 650)	6 hours
School Health Education Electives	6 hours
(To be selected with the advisor from the following)	
HEA 546, 575, 590, 620, 675, 680, 691, 697	
PHE 623, 695	
Other Electives	9 hours

Plan II

Professional Education	9 hours
School Health Education Core	6 hours
HEA 500, 650	
School Health Education Electives	15 hours
HEA 546, 575, 590, 620, 675, 691, 697	

Curriculum for Master of Arts in Education with an emphasis in Allied Health Sciences Education

This program emphasis has been established in response to the demand for qualified educators in the allied health fields. The intent of the program is to prepare allied health personnel to assume teaching roles in their areas of competencies. The prospective student will be expected to possess a license where appropriate, and have at least two years of experience in their specialty field. Students not meeting these qualifications may request a review of their credentials by a graduate faculty committee for an individual ruling. Public school teaching certification is not required for entrance to the program.

Professional Education	9 hours
Required Courses:	
HEA 698 and 699 or HEA 697	6 hours
EHE 690 or 691	3 hours
LIB 563 or 569	3 hours

Elective Courses:

Selected with the approval of advisor and resource person from student's specialty	9 hours
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Non-Degree Programs**Fifth Year Non-Degree Program in School Health Education**

Professional Education Core	12 hours
School Health Education Core	15 hours
Other Electives	5 hours

Course Descriptions**HEA SCHOOL AND PUBLIC HEALTH**

- 500 The School Health Program. Three hours. A.**
Organizational patterns necessary for an efficient, well-coordinated health program. Interrelated roles of health services, health instruction and healthful school living. Attention given to the role of the school health coordinator.
- 546 School Health Screening Services. Three hours. A.**
Explores need for school health screening services. Develops ability to screen students in the following areas: height, weight, posture, vision, hearing, and nutrition. Proposal for a comprehensive school health services program is developed.
- 575 Evaluation in School Health Education. Three hours. A.**
Familiarization with standardized and teacher-made instruments designed to evaluate health knowledge, attitudes and practices of students. Tests are constructed, administered and analyzed by class members.
- 590 School and Community Health Workshop. Three hours. A.**
Utilization of lectures, field trips, films, health demonstrations and group interactions to study health concerns of the school and community.

HEA SCHOOL AND PUBLIC HEALTH

- 620 Utilization of Health Resources. Three hours. A.**
Various facets of the problems faced by the consumers of health-related products and the intelligent use of available community health resources. Attention given to quackery and misconceptions as they relate to consumer health services.
- 650 Curriculum Improvement in School Health Education. Three hours. A.**
Current practices in elementary and secondary school health programs, evaluation of health courses of study and textbooks, study of student health interests and needs, and determination of the scope of health instruction at various grade levels.
- 675 Seminar in Contemporary Health Problems. Three hours. A.**
Focuses on prominent health issues of today. Possible topics include the misuse of alcohol, drug abuse, smoking, venereal disease, obesity, etc.
- 680 Special Projects in Health and Health Education. One to three hours. A.**
Individual research into a specific health program selected by the student with the approval of the instructor.
- 691 Current Issues in School Health Education. Three hours. A.**
Survey of major issues affecting the school health program. Investigation of current related literature for the purpose of formulating possible solutions to school health problems.
- 697 Thesis. Six hours. A.**
- 698 Seminar for Allied Health Professions. Three hours. A.**
General survey of allied health professions, role of comprehensive health planning concepts, use of health surveys, and role of the allied health worker in the health care delivery system.
- 699 Practicum in Allied Health Sciences Education. Three hours. A.**
Student will be placed in a working situation providing supervised pedagogical experiences appropriate for the individual's area of specialty.

Physical Education (PHE)**FRED DARLING, Chairman (Men)****ANN UHLIR, Chairman (Women)**

The Departments of Physical Education for Men and Women offer numerous teaching and non-teaching graduate programs. These programs are outlined below.

MASTER OF ARTS IN EDUCATION

Curriculum for Master of Arts in Education with an emphasis in Physical Education. Teacher certification is a co-requisite to this program.

Professional Education	9 hours
Physical Education Core	
PHE 621, 630, 649 or 652	6 hours
Physical Education Restricted Electives	9 hours
Electives	6 hours
Total Curriculum Requirements	30 hours

MASTER OF SCIENCE

Teacher certification is **not** prerequisite to the Master of Science program in physical education. The program is designed to satisfy the interests of individuals anticipating service in higher education, recreation, or other institutional settings.

Curriculum for Master of Science in Physical Education

Professional Education — EDF 669	3 hours
Physical Education Core	
PHE 621, 649, 652, and 680 or 695	12 hours
Physical Education Restricted Electives	
(To be selected from the following)	
PHE 620, 622, 623, 624, 630, 650, 651, 662, 669,	
675, 680, 691, 695, 698	9 hours
Other Electives	6 hours
Total Curriculum Requirements	30 hours

SPECIALIST IN EDUCATION

The Specialist in Education Degree is a sixty hour graduate program which may be entered with a bachelor's or master's degree by the holder of an undergraduate degree with a major or minor in physical education. For those entering the program at the fifth year level, the M.A. in Education or M.S. Degree may be earned enroute to the Specialist in Education Degree. Requirements for the sixty hour program follow.

Curriculum for Specialist in Education Degree in Physical Education

Physical Education Core	
PHE 649, 650, 651, 652, 675, 691, 695, 698 and 699	27 hours
Education Requirement	
EDF 695 plus six approved hours	9 hours
Physical Education Restricted Electives	
(To be selected from the following)	
PHE 620, 621, 622, 623, 624, 630, 662, 669, 680	18 hours
Other Electives	6 hours
Total Curriculum Requirements	60 hours

Curriculum for Fifth Year Non-Degree Program in Physical Education

Professional Education	12 hours
Physical Education	12 hours
Electives approved by advisor	8 hours

Curriculum for Sixth Year Non-Degree Program in Physical Education

The sixth year non-degree program is available to students with Rank II or master's degree desiring an additional thirty hours of graduate course work. These thirty hours will include as many of the following courses as the student has not completed at the master's level:

Physical Education Core	
PHE 649, 650, 651, 652, 675, 695	18 hours
Other Electives	
(Thirteen to thirty hours to complete a thirty hour program)	12 hours

Course Descriptions**PHE PHYSICAL EDUCATION****510 Non-Class Curricular Physical Education Activities for Women.****Two hours. I, II.**

Policies, principles and philosophy of participation in physical education programs for women. Attention given to intramurals, extramurals, sports days, play days, girls' athletic and recreation associations, coaching women's sports, and administration of women's sports programs.

PHE PHYSICAL EDUCATION

- 511 Coaching Field Hockey. Two hours. A.**
Theory and practice in coaching fundamentals involved in field hockey.
- 512 Coaching Volleyball. Two hours. A.**
Theory and practice in coaching fundamentals involved in volleyball.
- 515 Advanced Techniques of Athletic Training. Three hours. I, II.**
Study of specialized athletic training techniques including use of electrical therapy devices.
- 521 Physical Activity and Child Development. Three hours. A.**
Prerequisite: EDF 317.
Understanding of motor development and the improvement of human movement through developmental movement activities which are basic to readiness for performance at school.
- 523 Principles and Problems of Coaching Girls Sports. Three hours. I.**
Focus on coaching the girl athlete in contemporary society through an examination of research findings related to scientific factors affecting performance. Attention given to principles, problems and understandings essential to the management of athletic contests for girls.
- 550 Advanced Dance Production and Workshop I and II. One-half hour. I, II.**
Prerequisite: Approval of the instructor.
May be repeated once for credit.
Opportunities for directing the preparation, production, and performance of dance compositions culminating in a concert presentation. Three or more hours per week.
- 552 History of Dance. Two hours. A.**
History of dance from primitive man to the present with special emphasis on the development of American modern dance.
- 554 Modern Dance Technique and Choreography. Two hours. I, II.**
Prerequisite: PHE 345.
Modern dance technique, improvisation, choreography and production.
- 562 Physical Education for the Exceptional Individual. Two hours. I, II.**
Prerequisite: PHE 320 or 325.
Principles and practices of adapted physical education emphasizing nature, needs, and abilities of exceptional persons. Activities are modified to provide a program for these individuals.
- 567 Theory of Skill Acquisition. Three hours. A.**
Study of the process of skill acquisition and improvement of performance in physical education activities.
- 568 Administration and Organization of Physical Education. Two hours. I, II.**
Policies and procedures of administration on the elementary and secondary school level. Emphasis on construction and care of facilities, equipment and supervision of personnel.
- 575 Tests and Measurements in Physical Education. Three hours. I, II.**
Administration and scoring of tests; evaluation and use of results obtained.

PHE PHYSICAL EDUCATION

- 590 Workshop in Physical Education. One to four hours. A.**
(This course may be repeated but credit will not be awarded for two workshops by the same sub-title.)
Identification and study of significant problems, teaching methods, research findings, evaluation techniques and the use of appropriate demonstrations and participation important to the improvement of teaching.
- 596 Workshop for Elementary Teachers in Physical Education Activities. Three hours. A.**
Comprehensive review of techniques used in teaching physical education in the elementary grades. Emphasis placed on health evaluation, fitness testing, rhythmical activities, game activities, tumbling and self-testing activities.
- 598 Practicum in Athletic Training. Six hours. A.**
Supervised athletic training experience in a school, university or club setting.
- 620 Administration of Physical Education. Three hours. I.**
Procedures, policies, and problems relating to administrative functions of physical education administration. Topical areas include program, facilities and equipment, public relations, personnel, finances and supervision.
- 621 Physiological Bases of Physical Fitness. Three hours. I.**
Effects of chronic exercise on neuro-muscular, respiratory, and metabolic function.
- 622 Sociology of Sport. Three hours. II.**
Meaning of sport in contemporary societies and the impact of social order on development of attitudes about promotion of amateur and professional sports.
- 623 Professional Preparation in Health, Physical Education and Recreation. Three hours. II.**
Study of undergraduate curricula designed to prepare health, physical education, and recreation specialists with attention to curriculum development, recruitment, selective admission and retention, certification, placement, and follow-up procedures.
- 624 Contemporary and Comparative Physical Education. Three hours. II.**
Current trends in physical education resulting from political, sociological, and religious implications of various cultures of man.
- 625 The Role of the Supervisor in Physical Education. Three hours. A.**
Philosophy and principles of supervision in physical education; competencies and duties of the supervisor of physical education; techniques and methods of supervision in physical education.
- 630 Analysis of Human Motion. Three hours. II.**
Study of anatomical and physical laws that govern human motion using research findings as bases for accurate and up-to-date analysis of motor skills.
- 633 Motor Development. Three hours. A.**
Examination of physical activity as a factor in growth and development of children and adolescents including biological and behavioral science as the foundation for integrated study of physical growth, motor development, and physical activity.

PHE PHYSICAL EDUCATION

- 649 Philosophical Bases of Physical Education. Three hours. I.**
Development of philosophical approaches to physical education with an aim for discovering underlying principles on which physical education is based. Readings and discussion will relate to philosophical interpretations on questions of learning, curriculum, and administration, evaluation, and values.
- 650 Curriculum Designs in Physical Education. Three hours. I.**
Problems relating to design of programs in physical education. Curriculum project developed by each student.
- 651 Equipment and Facilities in Physical Education. Three hours. I.**
Problems relating to the programming of equipment and facilities. Visits to and evaluation of surrounding facilities.
- 652 Motor Learning and Performance. Three hours. II.**
Physiological and psychological factors relating to the learning of motor skills.
- 662 Adapted Physical Education. Three hours. II.**
Basic principles of an adapted program for handicapped students. A project will be required of each student.
- 669 Organization and Administration of Athletics. Three hours. A.**
Administrative problems of high school and college athletics. Considers staff, program, budget, safety, insurance, facilities, and other phases of administration.
- 675 Seminar in Physical Education. Three hours. II.**
Designed for research and discussion of critical questions in physical education. Issues to be selected will vary according to the concerns of seminar students.
- 680 Interpretation of Data in Physical Education. Three hours. II.**
Statistical interpretation of physical education data. Written reports using statistics required.
- 685 Independent Study. One to three hours. I, II.**
Prerequisite: Approval of advisor.
Designed for graduate students who have demonstrated the ability to conduct individual research relating to physical education. May be repeated for maximum of three hours.
- 691 Issues in Physical Education. Three hours. I.**
Exploration of critical issues independently using resources and techniques appropriate for gathering supportive evidence and developing substantive positions. Written and oral presentations are required.
- 695 Advanced Testing and Evaluation in Health and Physical Education. Three hours. I.**
Prerequisite: PHE 575, 680 or approval of the instructor.
Comparative statistics, construction of measurement instruments, and evaluation techniques applied to health and physical education.
- 697 Thesis. Three or six hours. A.**
Designed for students preparing a thesis in partial fulfillment of the requirements for masters degree programs.
May be repeated for a maximum of 6 hours.

PHE PHYSICAL EDUCATION

- 698 Research Design in Physical Education. Two hours. I.**
Introduction to physical education research including examination of experimental research designs, laboratory methods, execution and reporting. Delimitation of research problems and presentation of thesis plans will be central to the course.
- 699 Specialist Project. Four hours. I, II.**
Prerequisite: PHE 698, EDF 695, open only to Specialist Degree candidates. Designed to guide the student in his development of a scholarly project — a field project, a creative study, or more formal types of research and inquiry.

Recreation (REC)

JAMES McCHESNEY, Chairman

The Department of Recreation and Park Administration is responsible for program advisement and development leading to the Master of Science Degree in Recreation and Park Administration. Concentrated study is offered with areas of specialization in administration, camping and outdoor education, outdoor recreation, and therapeutic recreation.

Special Program Requirements*

MASTER OF SCIENCE

The student may elect concentrated study in the areas of administration, camping and outdoor education, outdoor recreation, or therapeutic recreation. The program provides for study in a specialized area and for study in breadth in selected allied areas.

Prerequisites — An undergraduate background with a major or minor in recreation or a minor in a related field is required. Individuals with backgrounds in biology, business, physical education, and sociology frequently find significant professional opportunities in recreation.

Courses open only to graduate students assume some foundation in recreation and park programming, organization, management, utilization and operation of facilities, budgeting, and legal matters. Deficiencies in these areas must be removed.

Program — All students must complete 30 semester hours including EDF 669, Research in Education. Eighteen hours must be completed in the core area of recreation, nine hours of which are in one of the functional areas of: administration, camping and outdoor education, outdoor recreation, or therapeutic recreation. Nine hours of related interdisciplinary course work will be selected in consultation with the student's advisor.

Admission to Candidacy — The student's committee will make an appraisal relative to professional and academic promise. Any deficiency in English, written or spoken, must be removed. A satisfactory score on the aptitude sections of the Undergraduate or Graduate Record Examination is required prior to admission to candidacy for the degree.

*Students must also meet the general requirements of the Graduate School.

Thesis — The thesis is optional in this program.

Comprehensives — During the last term of residence, the student must pass a written and/or oral comprehensive examination covering his major area of study.

Course Descriptions

REC RECREATION AND PARK ADMINISTRATION

- 501 Recreation and Park Administration. Three hours. I.**
Community organization, administrative practices, legal aspects, recruiting, selecting leaders, personnel practice, and public relations.
- 506 Planning, Design and Maintenance of Recreation Facilities. Three hours. II.**
Planning principles and procedures of recreation and park areas. Facilities, design problems, details of structure and equipment, master planning methods, study of standards and trends.
- 509 Independent Study. One-three hours. A.**
Prerequisite: For majors and minors only. Approval of advisor and instructor required.
Independent study of special topics and problems through directed readings and research. May be repeated for maximum of three hours.
- 511 Therapeutic Recreation. Three hours. I, II.**
Prerequisite: Approval of the instructor.
Terminology and programming in a therapeutic setting. Modification of leadership techniques and activities adaptation for the ill and handicapped. Field trips to observe programs.
- 516 Recreation Environmental Education Programs. Three hours. II.**
Philosophy, policies, and procedures of organizing and conducting school centered environmental education programs. Emphasis is placed on program services which are year-round, including resident outdoor schools and day services provided by recreation and environmental agencies for school groups.
- 521 Camp Administration. Three hours. A.**
Camp organization, business management, staffing, and program administration for different types of camps. Selection and development of camp sites.
- 590 Recreation Workshop. One-three hours. A.**
(May be repeated under different workshop subtitle.)
Identification and study of specialized techniques in recreation leadership, activity skills, operational methods, and services.
- 615 Practicum in Recreation. One-three hours. A.**
Supervised practical work experience in a clinical or administrative setting.
- 620 Administration of Activity Therapy. Three hours. A.**
Concerned with administration as applied to activity therapy service within federal, state, local and private facilities in institutions and agencies dealing with rehabilitation. Emphasis placed on administration, concepts and the use of management principles in a therapeutic setting.

REC

- 625 Philosophy and Trends in Recreation and Leisure. Three hours. A.**
Changing environment, significance of leisure in American life, theories and concepts of recreation and leisure, education for the arts of leisure, and recreative use of leisure.
- 635 Park Management and Operation. Three hours. A.**
Management principles and techniques as related to park areas, facilities, personnel, and finance. Problems and solutions with emphasis on current practices and trends.
- 640 Administrative Processes and Practices. Three hours. A.**
Principles and concepts of administration. In-depth investigation of budgeting, policy formulation, and legislative provisions.
- 645 Seminar: Problems in Recreation. One-four hours. A.**
Extensive collection and analysis of data concerning issues, trends, or problems that should be solved by the profession.
- 697 Thesis. Six hours. A.**

COLLEGE OF LAW ENFORCEMENT

ROBERT W. POSEY, Dean

TRUETT A. RICKS, Associate Dean

Major work leading to satisfaction of requirements for the degree of Master of Science in Criminal Justice is offered by the School of Law Enforcement.

The Master of Science Degree in criminal justice is designed to prepare the student to enter supervisory positions within the criminal justice system or college teaching. Optional graduate specialization is available in law enforcement and police administration, criminology and corrections, juvenile delinquency, and criminal justice education.

Special Program Requirements*

MASTER OF SCIENCE

For Admission — Students who have completed an undergraduate major in law enforcement will be accepted into the program. Students from other disciplines will be admitted, but may be required by the graduate advisory committee to eradicate defined undergraduate deficiencies. An overall grade point average of 2.6 is expected. Provisions for conditional admission exist.

For Admission to Candidacy — Satisfactory scores on the aptitude tests of the Graduate Record Examination are required for admission to candidacy. Attributes related to professional and technical promise will be appraised by the graduate advisory committee.

For Program — A minimum of 30 semester hours of graduate credit is required. The following courses are required of all students: Special Problems in Criminal Law (CRJ 640), and Research Methods (SOC 680). Specialization may be chosen from criminal justice education, law enforcement and police administration, criminology and corrections, and juvenile justice.

Curriculum for Specialization in Criminal Justice Education

Core Courses	6 hours
CRJ 640, SOC 680	
Education Core	6 hours
EHE 695, EHE 696, EHE 690 or EHE 691	
Subject Matter Core	9 hours
CRJ 610, CRJ 620, CRJ 630	
Electives Outside School of Law Enforcement	3 hours
Thesis	6 hours
	<hr/>
	30 hours

*Student must also meet the general requirements of the Graduate School.

Curriculum for Specialization in Law Enforcement and Police Administration

Core Courses	6 hours
CRJ 640, SOC 680	
Subject Matter Core	6 hours
CRJ 610, CRJ 611	
Electives Outside School of Law Enforcement	6 hours
Electives Within School of Law Enforcement	6 hours
Thesis	6 hours
	<hr/> 30 hours

Curriculum for Specialization in Criminology and Corrections

Core Courses	6 hours
CRJ 640, SOC 680	
Subject Matter Core	9 hours
CRJ 520, CRJ 630, CRJ 631	
Electives Outside School of Law Enforcement	6 hours
Electives Within School of Law Enforcement	3 hours
Thesis	6 hours
	<hr/> 30 hours

Curriculum for Specialization in Juvenile Justice

Core Courses	6 hours
CRJ 640, SOC 680	
Subject Matter Core	9 hours
CRJ 520, CRJ 620, CRJ 621	
Electives Outside School of Law Enforcement	6 hours
Electives Within School of Law Enforcement	3 hours
Thesis	6 hours
	<hr/> 30 hours

For Thesis — Students are required to write a thesis in this program.

For Comprehensives — A final oral examination in defense of the thesis is required.

Course Descriptions

CRJ CRIMINAL JUSTICE**520 Correctional Administration. Three hours. A.**

Formerly LEN 420.

Formerly Corrections and Administration.

Prerequisites: LEN 220 and 221.

Organization and administration problems, procedures and techniques unique to corrections; security force distribution and coordination with treatment services within detention and corrections institutions; coordination and cooperation with law enforcement and community service agencies; personnel policies, division of labor, budgets.

610 Advanced Police Administration. Three hours. A.

An examination of the functions of the police in the system of criminal justice; principles of organization, administration, police formulation, and management of personnel; statutory limitations on authority and jurisdiction; professionalization of the police.

CRJ CRIMINAL JUSTICE

- 611 Applied Study in Police Administration. Three hours. A.**
Supervised study in an approved police setting designed to provide the student an opportunity to synthesize theory and on-the-job situations. Individual conferences.
- 620 Seminar in Juvenile Justice. Three hours. A.**
Theoretical and empirical study of the etiology, distribution, and extent of delinquency; problems involved in measuring delinquency; role of the police and courts; legal statutes; critical examination of treatment and prevention programs.
- 621 Applied Study in Juvenile Justice. Three hours. A.**
Supervised study in an approved juvenile justice agency designed to provide the student an opportunity to synthesize theory and on-the-job situations. Individual conferences.
- 630 Seminar in Criminology and Corrections. Three hours. A.**
A seminar designed to explore criminological theories and practices regarding causes of criminal behavior; contemporary philosophies, legal codes and methods of treating offenders; the social structure of the institution; measures for the prevention of crime.
- 631 Applied Study in Corrections. Three hours. A.**
Supervised study in an approved correctional setting designed to provide the student an opportunity to synthesize theory and on-the-job situations. Individual conferences.
- 640 Special Problems in Criminal Law. Three hours. A.**
Formerly CRJ 540.
An advanced study of theories in criminal law and criminal procedure; the relationship of criminal law to the prevention of criminal behavior and to rehabilitation; techniques of legal research.
- 697 Research in Criminal Justice. Three or six hours. A.**
Individual investigations in the field of criminal justice. Investigations may be conducted in the field and under the supervision of the research advisor and other staff members.
- 698 Thesis I. Three hours. A.**
- 699 Thesis II. Three hours. A.**

Traffic Safety Institute (TRS)

L. LEACH, Director

The primary function of the Traffic Safety Institute is to provide instruction, research, and public service in the broad area of traffic safety. Upper division and graduate students who desire to teach driver education in the secondary schools may meet the certification requirements by taking courses offered within the Traffic Safety Institute.

Graduate Courses**TRS TRAFFIC SAFETY**

- 585 Introduction to Driver and Traffic Safety. Three hours. I, II.**
Driver and traffic safety education for prospective teachers; analysis of the driving task, arranged laboratory experiences in the supervision of practice driving for beginners.

- 586 Methods and Educational Media in Driver and Traffic Safety.**
Three hours. I, II.
Basic principles of the teaching-learning process through the use of behavioral objectives for driver and traffic safety; factors in learning, variables in instructional program, and instructional design. Techniques in planning and developing instructional materials for use in teaching.
- 587 Behavioral Approaches to Driver and Traffic Safety.**
Three hours. I, II.
Analyzing and writing objectives in terms of behavioral and environmental variables, designing and evaluating procedures, instructional materials, and programs in driver education.
- 588 Laboratory Instructional Program in Driver and Traffic Safety.**
Three hours. I, II.
The aims, objectives and role of laboratory programs in driver and traffic safety, designing and evaluating laboratory procedures, methods, and instructional materials.

PROGRAM DIRECTORY

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TERMINUS CODE

1 = M.A.	4 = M.M.E., M.M.	7 = Sp. in Ed.
2 = M.A. in Ed.	5 = M.S.	8 = Sp. in Tech.
3 = M.B.A.	6 = M.P.A.	9 = Certification

*Certification as used above may refer to some three classes of programs:

- 1) a fifth year non-degree program for teachers
- 2) a sixth year non-degree program — (both 1) and 2) have salary implications in the state ranking system.)
- 3) special certificate programs less than one year in length

For general information on fifth and sixth year programs, as well as on professional education requirements, see the College of Education section of the *Graduate Catalog*. Curriculum requirements in the disciplines are outlined in the departmental sections. Students are responsible for knowing and for meeting the general requirements of the Graduate School as well as regulations specific to the discipline.

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